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DEPARTMENT OF REGISTRATION AND EDUCATION

# SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS

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R. F. MAST

## ABSTRACT

Estimates were made of the areal size in acres of pay zones in each oil field in the state as of January 1, 1968. Pay acreage under flood and the status (active or abandoned) of the flood acreage and the remaining primary acreage were also determined. In addition, average properties (depth and thickness, porosity and permeability, and oil gravity and viscosity) were given for each pay zone in each oil field.

The data show that 48 percent of the 734,400 pay acres in the state were developed for waterflood and that an estimated 59.2 percent of the remaining primary wells were still active. Distributions for the different properties based on percent of total reservoir pore volume in the state are presented for each of the 4 major producing lithologies.

## INTRODUCTION

The purpose of this paper is to bring together in a convenient form much of the data on file at the Illinois Geological Survey concerning the size, properties, and development of Illinois oil fields.

In the past 15 years, many methods have been developed to recover additional quantities of oil from petroleum reservoirs. As a result, there has been an increased demand for information regarding reservoir size and reservoir rock and fluid properties. Both the oil industry and governmental agencies seek this information to determine the effect of improving technology on the future development of known oil accumulations.

The gas storage industry in the state has also requested information for evaluation of petroleum reservoirs as potential gas storage sites.

The majority of the underground gas storage capacity now developed in the state is in aquifers. Future developments of this type may be concentrated in depleted oil fields (Buschbach and Bond, 1967, p. 18 and fig. 5).

In the past 4 years there has been increasing interest, especially by regulatory governmental agencies, in the underground disposal of wastes (Bergstrom, 1968). In the future, oil fields may also be utilized as waste disposal sites.

It is intended, therefore, that this collection of information will serve as a useful reference to people interested in the future development of the Illinois oil industry and also to those engaged in the underground disposal and storage of liquids and gases.

## REVIEW OF THE DEVELOPMENT HISTORY OF THE ILLINOIS OIL FIELDS

The first major oil fields were discovered in eastern Illinois in shallow Pennsylvanian rocks along the LaSalle Anticline and were principally developed between 1903 and 1913. A peak in annual production of 33.1 million barrels from these "old fields" was reached in 1910. During the 1920's and 1930's, some areas of the "old fields" were subjected to gas or air repressuring, and in the 30's some small experimental or accidental waterfloods were active. However, these operations did not have any significant effect on the state's annual oil production during this period. In 1937, new drilling found production in the Mississippian rocks in the deep Illinois Basin area, and exploratory drilling in the state since 1937 has found oil in rocks ranging in age from Ordovician to Pennsylvanian.

A peak in annual oil production of 146.8 million barrels, resulting from the post-1937 discoveries, was reached in 1940. However, from 1942 to 1946, wartime restrictions curtailed new drilling and waterflood developments. In the early 1950's, the employment of both modern waterflood techniques and the hydrofracing of wells began, and the state's annual oil production rose from 59 million barrels in 1953 to over 80 million barrels in 1955. This "technological boom" stabilized the state's annual oil production at around 80 million barrels until 1963.

During the 1960's, several small experimental projects were developed in Illinois reservoirs to evaluate some new recovery methods. These projects have met with varying degrees of success. In the future, technological developments and economics will undoubtedly have a great influence on the ultimate recovery of oil already discovered in the state.

### COLLECTION OF THE DATA

All of the information presented in this report was available or was developed from data found in the files and publications of the Illinois Geological Survey. Data were collected for each pay zone in each oil field. Figure 1 illustrates the geologic column, showing the various pay zones in the state. Table 1 gives the locations of the oil fields. Howard (1967) has published oil and gas pay maps of the Illinois oil fields.

## Size

### Total Productive Area

Estimates of the total productive area for each pay zone in each oil field were made from oil and gas maps showing the pay zone completed in each well (Howard, 1967). The productive area estimates were made by dividing each legal section into 10-acre units. Each of these units which contained a completed oil well in a given pay zone was counted as 10 acres of productive area in that pay. Any undrilled 10-acre units offset on at least two sides by production in a pay zone were also counted as 10 acres of productive area in that pay. In practice, this method of defining productive area for each pay zone could easily be applied in areas drilled on both 10- and 20-acre spacing. But in a few areas of the state (e.g., Johnsonville C.), wells were drilled on 40-acre spacing. In these areas the same technique was used, except that each well completion was considered to represent 40 acres instead of 10.

For some of the "old field" areas, well-completion data and development maps were incomplete; for these fields, maps showing productive limits for each pay were found in the literature (e.g., Squires and Bell, 1943) or in the Survey files. These maps were updated by adding the new wells drilled in the field (usually from waterflood operations). The maps were then planimetered to determine the productive areas.

### Total Areal Acres

Estimates of the total areal or surface acres covered by each oil field were made by planimetering the maximum productive area from a map on which the productive areas of all pay zones in the field had been superimposed. These data are given in table 2. The total areal acres are given in the first column opposite the field name, the total productive area in acres in each pay zone is given in the first column opposite the pay zone name, and the sum of the pay acres in each field is given in the same column in the last line.

## Development

### Waterfloods

To determine the development and production status of the acreage under flood in each pay zone, all pay acreage within known waterflood unit boundaries was classified as flood acreage.



## GENERALIZED GEOLOGIC COLUMN OF SOUTHERN ILLINOIS

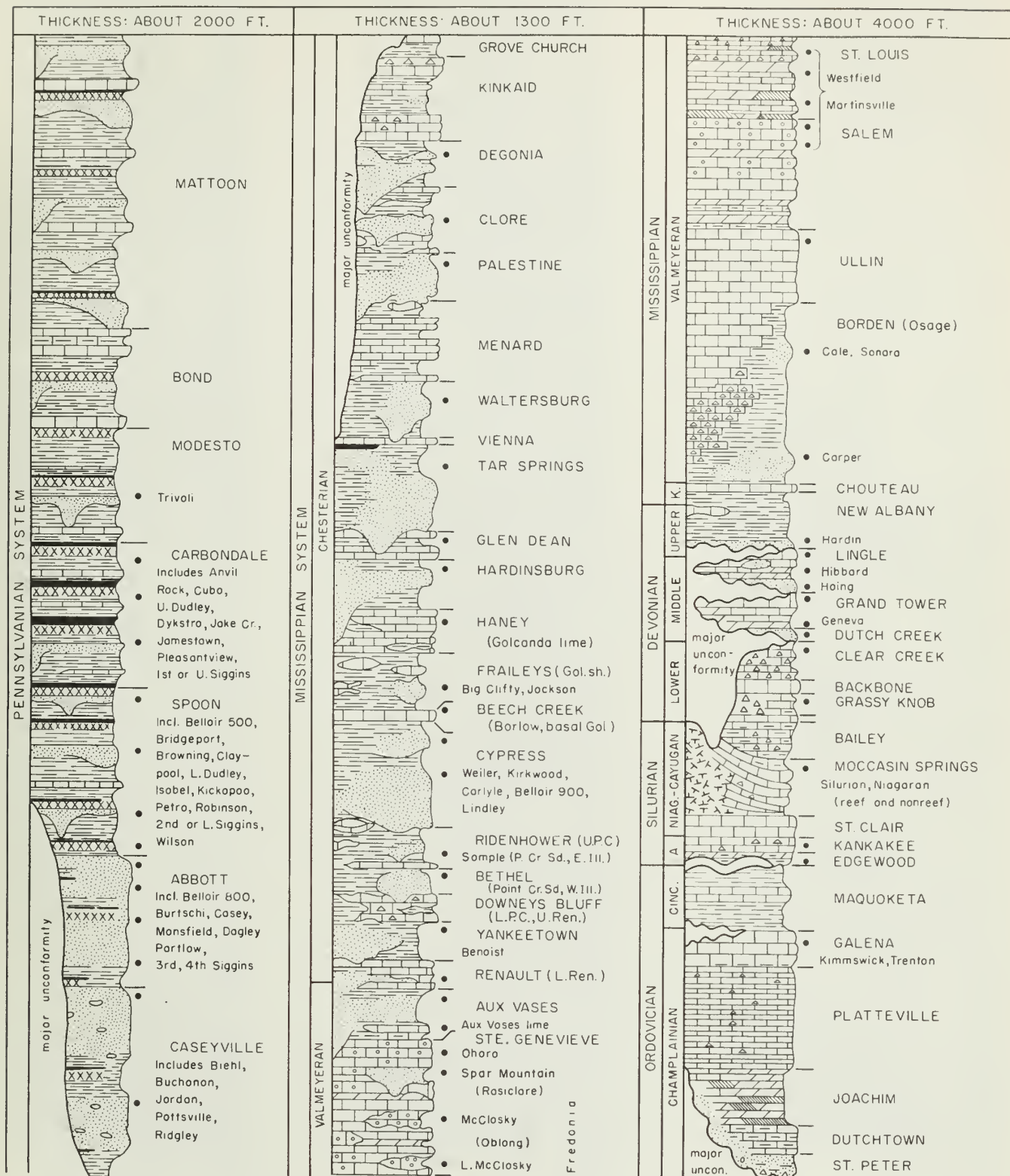


Fig. 1 - Generalized geologic column of southern Illinois. Black dots indicate oil and gas pay zones. Formation names are in capitals; other pay zones are not. About 4000 feet of the lower part of Ordovician and the upper sandstone Cambrian rocks under the St. Peter are not shown. Kinderhookian (K), Niagran (Niag.), Alexandrian (A), and Cincinnati (Cinc.) Series are abbreviated. Variable vertical scale. (Prepared by David H. Swann)

TABLE 1 - LOCATIONS OF ILLINOIS OIL FIELDS

| Name, County, Township and Range                   | Name, County, Township and Range                              | Name, County, Township and Range                 |
|----------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|
| Ab Lake, Gallatin, 8S, 10E                         | Browns, Edwards, Wabash, 1-2S, 14W                            | Elba, Gallatin, 8S, 8E                           |
| Ab Lake South, Gallatin, 9S, 10E                   | Browns E, Wabash, 1-2S, 14W                                   | Elbridge, Edgar, 12-13N, 11W                     |
| Ab Lake West, Gallatin, 8-9S, 9-10E                | Browns S, Edwards, 2S, 14W                                    | Eldorado C, Saline, 8S, 6-7E                     |
| Aden C, Wayne, Hamilton, 2-3S, 7E                  | Browns S, Edwards, 2S, 14W                                    | Eldorado C, Saline, 8S, 6-7E                     |
| Aden East, Wayne, 2S, 7E                           | Buckhorn, Brown, 1S, 4W                                       | Eldorado E, Saline, 8S, 7E                       |
| Aden South, Hamilton, 3S, 7E                       | Buckner, Franklin, 6S, 2E                                     | Eldorado W, Saline, 8S, 6E                       |
| Akin, Franklin, 6S, 4E                             | Bulpitt S, Christian, 13N, 3W                                 | Elk Prairie, Jefferson, 4S, 2E                   |
| Akin West, Franklin, 6S, 4E                        | Bungay C, Hamilton, 4S, 7E                                    | Elkton, Washington, 2S, 4W                       |
| Albion Cen, Edward S, 2S, 10E                      | Burnt Prairie S, White, 4S, 9E                                | Elkville, Jackson, 7S, 1W                        |
| Albion C, Edwards, White, 1-3S, 10-11E, 14W        | Calhoun Cen, Richland, 2N, 10E                                | Ellery E, Edwards, 2S, 10E                       |
| Albion C, Edwards, White, 1-3S, 10-11E, 14W        | Calhoun C, Richland, Wayne 2-3N, 9-10E                        | Ellery N, Edwards, Wayne, 2S, 9-10E              |
| Albion Northwest, Edwards, 1S, 10E                 | Calhoun E, Richland, 2N, 10-11E                               | Ellery S, Edwards, 2-3S, 10E                     |
| Albion West, Edwards, 3S, 10E                      | Calhoun N, Richland, 3N, 10E                                  | Elliotstown, Effingham, 7N, 7E                   |
| Allendale, Wabash, Lawrence, 1-2N, 11-13W          | Calhoun S, Wayne, Richland, Edwards, 1-2N, 9E                 | Elliotstown E, Effingham, 7N, 7E                 |
| Alma, Marion, 4N, 2E                               | Carlinville, Macoupin, 9N, 7W                                 | Elliotstown N, Effingham, 7N, 7E                 |
| Amity, Richland, 4N, 14W                           | Carlinville N, Macoupin, 10N, 7W                              | Energy, Williamson, 9S, 2E                       |
| Amity S, Richland, 4N, 14W                         | Carlinville S, Macoupin, 9N, 7W                               | Enfield, White, 5S, 8E                           |
| Amity W, Richland, 4N, 14W                         | Carlyle, Clinton, 2N, 3W                                      | Enfield S, White, 6S, 8E                         |
| Ashley, Washington, 2S, 1W                         | Carlyle E, Clinton, 2N, 2W                                    | Evers, Effingham, 8N, 7E                         |
| Ashmore E, Coles, 13N, 14W                         | Carlyle N, Clinton, 3N, 3W                                    | Evers S, Effingham, 7N, 7E                       |
| Ashmore S, Coles, Clark, 12N, 10-11E, 14W          | Carlyle S, Clinton, 1N, 3W                                    | Ewing, Franklin, 5S, 3E                          |
| Assumption Cen, Christian, 13N, 1E                 | Carmi, White, 5S, 9E                                          | Ewing E, Franklin, 5S, 3E                        |
| Assumption C, Christian, 13-14N, 1E                | Carmi N, White, 5S, 9E                                        | Exchange, Marion, 1N, 3E                         |
| Assumption S, Christian, 12N, 1E                   | Casey, Clark, 10-11N, 14W                                     | Exchange E, Marion, 1N, 4E                       |
| Ava-Campbell Hill, Jackson, 7S, 3-4W               | Centerville, White, 4S, 9E                                    | Exchange N C, Marion, 1N, 3-4E                   |
| Baldwin, Randolph, 4S, 6W                          | Centerville E, White, 3-4S, 9-10E                             | Exchange W, Marion, 1N, 3E                       |
| Barnhill, Wayne, White, 2-3S, 8E                   | Centerville N, White, 3S, 10E                                 | Fairman, Marion, Clinton, 3N, 1E, 1W             |
| Bartels, Clinton, 1-2N, 3W                         | Centerville N E, White, 3S, 10E                               | Fancer, Shelby, 10N, 4E                          |
| Bartels E, Clinton, 1N, 3W                         | Central City, Marion, 1N, 1E                                  | Fehr Lake, Gallatin, 9S, 10E                     |
| Bartels S, Clinton, 1N, 3W                         | Centralia, Clinton, Marion, 1-2N, 1E, 1W                      | Fitzgerrell, Jefferson, 4S, 1E                   |
| Bartels W, Clinton, 1N, 3-4W                       | Centralia W, Clinton, 1N, 1W                                  | Fitzgerrell, Jefferson, 4S, 1E                   |
| Beaucoup, Washington, 2S, 2W                       | Chesterville, Douglas, 15N, 7E                                | Flora S, Clay, 2N, 6E                            |
| Beaucoup S, Washington, 2S, 2W                     | Chesterville E, Douglas, 14-15N, 7-8E                         | Forsyth, Macon, 17N, 2E                          |
| Beaver Creek, Bond, Clinton, 3-4N, 2-3W            | Christopher S, Franklin, 7S, 1E                               | Francis Mills, Saline, 7S, 7E                    |
| Beaver Creek N, Bond, 4N, 3W                       | Clarksburg, Shelby, 10N, 4E                                   | Francis Mills S, Saline, 7S, 7E                  |
| Beaver Creek S, Clinton, Bond, 3-4N, 2-3W          | Clay City C, Clay, Wayne, Richland, Jasper, 1-7N, 1-2S, 6-11E | Freeburg, St. Clair, 1-2S, 7W                    |
| Beckemeyer Gas, Clinton, 2N, 3W                    | Clifford, Williamson, 8S, 1E                                  | Freemanspur, Williamson, 8S, 2E                  |
| Bellair, Crawford, Jasper, 8N, 14W                 | Coil, Wayne, 1S, 5E                                           | Friendsville Cen, Wabash, 1N, 13W                |
| Belle Prairie, Hamilton, 4S, 6-7E                  | Coil N, Wayne, 1N-1S, 5E                                      | Friendsville N, Wabash, 1N, 12-13W               |
| Belle Prairie, W, Hamilton, 4S, 5E                 | Coil W, Jefferson, 1S, 4E                                     | Frogtown, Clinton, 2N, 3-4W                      |
| Belle Rive, Jefferson, 3S, 4E                      | Collinsville, Madison, 3N, 8W                                 | Frogtown N, Clinton, 2-3N, 3-4W                  |
| Bellmont, Wabash, 1S, 13-14W                       | Colmar-Plymouth, Hancock-McDonough, 4-5N, 4-5W                | Gards Point C, Wabash, 1N, 14W                   |
| Beman, Lawrence, 3N, 11W                           | Concord C, White, 6S, 10E                                     | Gays, Moultrie, 12N, 6E                          |
| Beman E, Lawrence, 3N, 10W                         | Concord E C, White, 6-7S, 10E                                 | Germantown E, Clinton, 1-2N, 4W                  |
| Bennington S, Edwards, 1N, 10E                     | Cooks Mills C, Coles, Douglas 13-14N, 7-8E                    | Gila, Jasper, 7-8N, 9E                           |
| Benton, Franklin, 6S, 2-3E                         | Corde, Washington, 3S, 3W                                     | Gillespie-Wyen, Macoupin, 8N, 6W                 |
| Benton N, Franklin, 5-6S, 2E                       | Corinth, Williamson, 8S, 4E                                   | Glenarm, Sangamon, 14N, 5W                       |
| Berry, Sangamon, 15N, 3W                           | Corinth E, Williamson, 8S, 4E                                 | Goldengate C, Wayne, White, Edwards, 2-4S, 9-10E |
| Berryville C, Wabash, Edwards, Richland, 1-2N, 14W | Corinth N, Williamson, 8S, 4E                                 | Goldengate C, Wayne, White, Edwards, 2-4S, 9-10E |
| Bessie, Franklin, 6S, 3E                           | Cottage Grove, Saline, 9S, 7E                                 | Goldengate E, Wayne, 3S, 9E                      |
| Bible Grove N, Effingham, 6N, 7E                   | Coulterville N, Washington, 3S, 5W                            | Goldengate N C, Wayne, 1-2S, 8-9E                |
| Bible Grove S, Clay, 5N, 7E                        | Covington S, Wayne, 2S, 6E                                    | Grandview, Edgar, 12-13N, 13W                    |
| Black Branch, Sangamon, 15N, 4W                    | Craig, Perry, 4S, 4W                                          | Grayson, Saline, 8S, 7E                          |
| Blackland, Macon, Christian, 15N, 1E-1W            | Cravat, Jefferson, 1S, 1E                                     | Greenville Gas, Bond, 5N, 3W                     |
| Blackland N, Macon, 16N, 1E                        | Cravat W, Jefferson, 1S, 1E                                   | Half Moon, Wayne, 1S, 9E                         |
| Black River, White, 4S, 13W                        | Crossville, White, 4S, 10E                                    | Harco, Saline, 8S, 5E                            |
| Blairsville W, Hamilton, 4S, 7E                    | Crossville W, White, 4S, 10E                                  | Harco E, Saline, 8S, 5E                          |
| Bluford, Jefferson, 2S, 4E                         | Dahlgren, Hamilton, 3S, 5E                                    | Harrisburg, Saline, 8S, 6E                       |
| Bogota, Jasper, 6N, 9E                             | Dahlgren W, Jefferson, 4S, 4E                                 | Harrisburg S, Saline, 9S, 6E                     |
| Bogota N, Jasper, 6N, 9E                           | Dale C, Franklin, Hamilton, Saline, 5-7S, 4-7E                | Harristown, Macon, 16N, 1E                       |
| Bogota S, Jasper, 5-6N, 9E                         | Decatur, Macon, 16-17N, 2E                                    | Hayes, Douglas, Champaign, 16N, 8E               |
| Bogota W, Jasper, 6N, 9E                           | Decatur N, Macon, 17N, 3E                                     | Herald C, White, Gallatin, 6-8S, 9-10E           |
| Bone Gap C, Edwards, 1S, 10-11E, 14W               | Deering City, Franklin, 7S, 3E                                | Herrin, Williamson, 8S, 2E                       |
| Bone Gap C, Edwards, 1S, 10-11E, 14W               | Divide C, Jefferson, 1S, 3-4E                                 | Hickory Hill, Marion, 1N, 4E                     |
| Bone Gap E, Edwards, 1S, 14W                       | Divide S, Jefferson, 2S, 3-4E                                 | Hidalgo, Jasper, 8N, 10E                         |
| Bone Gap W, Edwards, 1S, 10E                       | Dix S, Jefferson, 1S, 2E                                      | Hidalgo E, Jasper, 8N, 10E                       |
| Boulder, Clinton, 2-3N, 2W                         | Dollville, Shelby, 12N, 2E                                    | Hidalgo N, Cumberland, 9N, 9E                    |
| Boulder E, Clinton, 3N, 1W                         | Dubois Cen, Washington, 3S, 1-2W                              | Hidalgo S, Jasper, 8N, 10E                       |
| Bourbon C, Douglas, 15N, 7E                        | Dubois C, Washington, 3S, 1-2W                                | Highland, Madison, 4N, 5W                        |
| Bourbon S, Douglas, 15N, 7E                        | Dudley, Edgar, 13-14N, 13W                                    | Hill, Effingham, 6N, 6E                          |
| Bowyer, Richland, 5N, 14W                          | Dudleyville E, Bond, 4-5N, 2-3W                               | Hill E, Effingham, 6N, 6E                        |
| Boyd, Jefferson, 1S, 1-2E                          | Dupo, St. Clair, 1N, 1S, 10W                                  | Hillsboro, Montgomery, 9N, 3W                    |
| Broughton, Hamilton, 6S, 7E                        | Eberle, Effingham, 6N, 6E                                     | Hoffman, Clinton, 1N, 2W                         |
| Broughton S, Saline, 7S, 7E                        | Edinburg, Christian, 14N, 3W                                  | Hoodville E, Hamilton, 5S, 7E                    |
| Brown, Marion, 1N, 1E                              | Edinburg S, Christian, 14N, 3W                                | Hord, Clay, 5N, 6E                               |
|                                                    | Edinburg W, Christian, Sangamon, 14N, 3-4W                    | Hord S C, Clay, 5N, 6E                           |
|                                                    |                                                               | Hornsby S, Macoupin, 8N, 6W                      |
|                                                    |                                                               | Hoyleton W, Washington, 1S, 2W                   |
|                                                    |                                                               | Huey, Clinton, 2N, 2W                            |
|                                                    |                                                               | Huey S, Clinton, 1-2N, 2-3W                      |
|                                                    |                                                               | Hunt City, Jasper, 7N, 10E                       |
|                                                    |                                                               | Hunt City E, Jasper, 7N, 14W                     |

TABLE 1 - LOCATIONS OF ILLINOIS OIL FIELDS, Continued

| Name, County, Township and Range       | Name, County, Township and Range             | Name, County, Township and Range           |
|----------------------------------------|----------------------------------------------|--------------------------------------------|
| Hunt City S, Jasper, 7N, 14W           | Maple Grove S, Edwards, 1N, 10E              | Oskaloosa E, Clay, 3N, 5-6E                |
| Hutton, Coles, 11N, 10E                | Marcoe, Jefferson, 3S, 2E                    | Oskaloosa S, Clay, 3N, 5E                  |
| Ina, Jefferson, 4S, 2-3E               | Marine, Madison, 4N, 6W                      | Pana, Christian, 11-12N, 1E                |
| Ina N, Jefferson, 4S, 3E               | Marine W, Madison, 5N, 7W                    | Panama, Bond, Montgomery, 7N, 3-4W         |
| Inclose, Edgar, Clark                  | Marion, Williamson, 9S, 3E                   | Pankeyville, Saline, 9S, 6E                |
| 12N, 13-14W                            | Marion E, Williamson, 9S, 3E                 | Pankeyville E, Saline, 9S, 7E              |
| Ingraham, Clay, 4N, 8E                 | Marissa W, St. Clair, 3-4S, 7W               | Parkersburg C, Richland, Edwards,          |
| Inman E C, Gallatin, 7-8S, 10E         | Markham City, Jefferson,                     | 1-3N, 10-11E, 14W                          |
| Inman W C, Gallatin, 7-8S, 9-10E       | 2S, 4-5E                                     | Parkersburg S, Edwards, 1N, 14W            |
| Iola Cen, Clay, 5N, 5E                 | Markham City N, Jefferson,                   | Parkersburg W, Richland, Edwards, 2N, 10E  |
| Iola C, Clay, Effingham, 5-6N, 5-6E    | Wayne, 2S, 4-5E                              | Parnell, DeWitt, 21N, 4E                   |
| Iola S, Clay, 4N, 5E                   | Markham City W, Jefferson, 2-3S, 4E          | Passport, Clay, 4-5N, 8E                   |
| Iola W, Clay, 5N, 5E                   | Martinsville, Clark, 9-10N, 13-14W           | Passport N, Richland, 5N, 9E               |
| Irrington, Washington, 1S, 1W          | Mason N, Effingham, 6N, 5E                   | Passport S, Richland, Clay, 4N, 8-9E       |
| Irrington E, Jefferson, 1S, 1E         | Massilon, Wayne, Edwards, 1S, 9-10E          | Passport W, Clay, 4N, 8E                   |
| Irrington N, Washington, 1N, 1S, 1W    | Massilon S, Edwards, 1S, 10E                 | Patoka, Marion, Clinton, 3-4N, 1E, 1W      |
| Irrington W, Washington, 1S, 1W        | Mattoon, Coles, 11-12N, 7-8E                 | Patoka E, Marion, 4N, 1E                   |
| Iuka, Marion, 2N, 4E                   | Mattoon N, Coles, 13N, 7E                    | Patoka S, Marion, 3N, 1E                   |
| Iuka W, Marion, 2N, 3-4E               | Mattoon S, Cumberland, 11N, 7E               | Patoka W, Fayette, 4N, 1W                  |
| Jacksonville Gas, Morgan,              | Maunie E, White, 6S, 11E                     | Phillipstown C, White, Edwards, 3-5S,      |
| 15N, 9W                                | Maunie N C, White, 5-6S, 10-11E, 14W         | 10-11E, 14W                                |
| Johnson N, Clark, 9-10N, 14W           | Maunie N C, White, 5-6S, 10-11E, 14W         | Phillipstown S, White, 5S, 10E             |
| Johnson S, Clark, 9N, 14W              | Maunie South C, White, 6S, 10-11E            | Pinkstaff, Lawrence, 4N, 11W               |
| Johnsonville C, Wayne, 1N, 1S, 6-7E    | Mayberry, Wayne, 2-3S, 6E                    | Pinkstaff E, Lawrence, 4N, 11W             |
| Johnsonville N, Wayne, 1N, 6E          | Mayberry N, Wayne, 2S, 6E                    | Pittsburg N, Williamson, 8S, 3E            |
| Johnsonville S, Wayne, 1S, 6E          | Melrose, Clark, 9N, 13W                      | Pixley, Clay, 4N, 8E                       |
| Johnsonville W, Wayne, 1N, 1S, 5-6E    | Melrose S, Clark, 9N, 13W                    | Plainview, Macoupin, 9N, 8W                |
| Johnsonville W, Wayne, 1N, 1S, 5-6E    | Miletus, Marion, 4N, 4E                      | Plainview S, Macoupin, 8N, 8W              |
| Johnston City E, Williamson, 8S, 3E    | Millersburg, Bond, 4N, 4W                    | Posen, Washington, 3S, 2W                  |
| Junction, Gallatin, 9S, 9E             | Mill Shoals, White, Hamilton,                | Posen N, Washington, 3S, 2W                |
| Junction E, Gallatin, 8-9S, 9E         | Wayne, 2-4S, 7-8E                            | Posen S, Washington, 3S, 2W                |
| Junction N, Gallatin, 8-9S, 9E         | Mills Prairie, Edwards, 1N, 14W              | Posey, Clinton, 1N, 2W                     |
| Junction City C, Marion, 1E            | Mills Prairie N, Edwards, 1N, 14W            | Posey E, Clinton, 1N, 2W                   |
| Keensburg E, Wabash, 2S, 13W           | Mitchellsville, Saline, 10S, 6E              | Posey W, Clinton, 1N, 3W                   |
| Keensburg S, Wabash, 2-3S, 13W         | Mode, Shelby, 10N, 4E                        | Prentice, Morgan, 16N, 8W                  |
| Keenville, Wayne, 1S, 5E               | Montrose, Effingham, 8N, 7E                  | Pyramid, Washington, 2S, 1W                |
| Keenville E, Wayne, 1S, 5E             | Mt. Auburn C, Christian, 15N, 1-2W           | Raccoon Lake, Marion, 1N, 1E               |
| Kell, Jefferson, 1S, 3E                | Mt. Carmel, Wabash, 1N, 1S, 12W              | Raleigh, Saline, 7-8S, 6E                  |
| Kell W, Marion, 1N, 2E                 | Mt. Erie N, Wayne, 1N, 9E                    | Raleigh S, Saline, 8S, 5-6E                |
| Kellerville, Adams, Brown,             | Mt. Olive, Montgomery, 8N, 5W                | Raymond, Montgomery, 10N, 4-5W             |
| 1-2S, 5W                               | Mt. Vernon, Jefferson, 3S, 3E                | Raymond E, Montgomery, 10N, 4W             |
| Kenner, Clay, 3N, 5-6E                 | Murdock, Douglas, 16N, 10E                   | Raymond S, Montgomery, 10N, 4W             |
| Kenner N, Clay, 3N, 6E                 | Nason, Jefferson, 3-4S, 2E                   | Reservoir, Jefferson, 1S, 3E               |
| Kenner S, Clay, 2N, 5E                 | New Baden E, Clinton, 1N, 5W                 | Richview, Washington, 2S, 1W               |
| Kenner W, Clay, 3N, 5E                 | New Bellair, Crawford, 8N, 13W               | Ridgeway, Gallatin, 8S, 8E                 |
| Keyesport, Clinton, 3N, 2W             | New City, Sangamon, 14N, 4W                  | Riffle, Clay, 4N, 6E                       |
| Kincaid C, Christian, 13-14N, 3W       | New City S, Christian, 14N, 4W               | Rinard, Wayne, 2N, 7E                      |
| King, Jefferson, 3-4S, 3E              | New Douglas S, Bond, 6N, 5W                  | Rinard N, Wayne, 2N, 7E                    |
| Kinmundy, Marion, 4N, 2-3E             | New Harmony C, White, Wabash,                | Rinard S, Wayne, 1N, 6E                    |
| Kinmundy N, Marion, 4N, 3E             | Edwards, 1N, 1-5S, 13-14W                    | Ritter, Richland, 3N, 10-11E               |
| Laclede, Fayette, 5N, 4E               | New Harmony S (Ill), White, 5S, 14W          | Ritter N, Richland, 3N, 11E                |
| Lakewood, Shelby, 10N, 2-3E            | New Harmony S (Ind), White, 5S, 14W          | Riverton S, Sangamon, 15N, 4W              |
| Lancaster, Wabash, Lawrence, 1-2N, 13W | New Haven C, White, 7S, 10-11E               | Roaches, Jefferson, 2S, 1E                 |
| Lancaster Cen, Wabash, 1N, 13W         | New Hebron E, Crawford, 6N, 12W              | Roaches N, Jefferson, 2S, 1E               |
| Lancaster E, Wabash, 2N, 13W           | New Memphis, Clinton, 1N, 1S, 5W             | Roby, Sangamon, 15N, 3W                    |
| Lancaster S, Wabash, 1N, 13W           | New Memphis E, Washington, 1S, 4W            | Roby N, Sangamon, 15N, 3W                  |
| Langewisch-Kuester, Marion, 1N, 1E     | New Memphis N, Clinton, 1N, 5W               | Roby W, Sangamon, 15N, 3W                  |
| Lawrence, Lawrence, Crawford,          | New Memphis S, Clinton, Washington, 1S, 5W   | Rochester, Wabash, 2S, 13W                 |
| 2-5N, 11-13W                           | Newton, Jasper, 6N, 9E                       | Roland C, White, Gallatin, 5-7S, 8-9E      |
| Lawrence W, Lawrence, 3N, 13W          | Newton N, Jasper, 7N, 10E                    | Roland W, Saline, 7S, 7E                   |
| Lexington, Wabash, 1S, 14W             | Newton W, Jasper, 6-7N, 9E                   | Rose Hill, Jasper, 8N, 9E                  |
| Lexington N, Wabash, 1S, 14W           | Noble W, Clay, 3N, 8E                        | Ruark, Lawrence, 2N, 12-13W                |
| Lillyville, Cumberland, Effingham,     | Oakdale, Jefferson, 2S, 4E                   | Ruark C, Lawrence, 2N, 13W                 |
| 8-9N, 6-7E                             | Oakdale N, Jefferson, 2S, 4E                 | Rural Hill N, Hamilton, 5S, 5E             |
| Lis, Jasper, 7N, 9E                    | Oakley, Macon, 16N, 3E                       | Rushville, Schuyler, 2N, 1W                |
| Litchfield, Montgomery, 8-9N, 5W       | Oak Point, Clark, Jasper, 8-9N, 14W          | Rushville N W, Schuyler, 2N, 2W            |
| Litchfield S, Montgomery, 8N, 5W       | Oak Point W, Clark, Cumberland, 9N, 11E, 14W | Russellville Gas, Lawrence, 4-5N, 10-11W   |
| Livingston, Madison, 6N, 6W            | Odin, Marion, 2N, 1-2E                       | Russellville W, Lawrence, 2N, 11W          |
| Livingston S, Madison, 5-6N, 6W        | Okawville, Washington, 1S, 4W                | St. Francisville, Lawrence, 2N, 11W        |
| Locust Grove, Wayne, 1N, 9E            | Okawville N, Washington, 1S, 4W              | St. Francisville E, Lawrence, 2N, 11W      |
| Locust Grove S, Wayne, 1S, 9E          | Old Ripley, Bond, 5N, 4W                     | St. Jacob, Madison, 3N, 6W                 |
| Logan, Franklin, 7S, 3E                | Old Ripley N, Bond, 5N, 4W                   | St. Jacob E, Madison, 3N, 6W               |
| Long Branch, Saline, Hamilton,         | Olney C, Richland, Jasper, 4-5N, 10          | St. James, Fayette, 5-6N, 2-3E             |
| 7S, 6E                                 | Olney S, Richland, 3N, 10E                   | St. Paul, Fayette, 5N, 3E                  |
| Long Branch S, Saline, 8S, 6E          | Omaha, Gallatin, 7-8S, 8E                    | Ste. Marie, Jasper, 5N, 10-11E, 14W        |
| Louden N, Fayette, Effingham,          | Omaha E, Gallatin, 8S, 8E                    | Ste. Marie E, Jasper, 6N, 14W              |
| 6-9N, 2-4E                             | Omaha S, Gallatin, Saline, 8S, 7-8E          | Ste. Marie W, Jasper, 5-6N, 10E            |
| Louisville N, Clay, 4N, 6E             | Omaha W, Saline, Gallatin, 7-8S, 7-8E        | Sailor Springs Cen, Clay, 3-4N, 7-8E       |
| Louisville N, Clay, 4N, 6E             | Omega, Marion, 3N, 4E                        | Sailor Springs C, Clay,                    |
| Louisville S, Clay, 3N, 6E             | Opdyke, Jefferson, 3S, 4E                    | Effingham, Jasper, 3-6N, 6-8E              |
| Lynchburg, Jefferson, 3S, 4E           | Orchardville, Wayne, 1N, 5E                  | Sailor Springs E, Clay, 4N, 8E             |
| McKinley, Washington, 3S, 4W           | Orchardville N, Wayne, 1N, 5E                | Sailor Springs N, Clay, 4N, 8E             |
| Macedonia, Franklin, 5S, 4E            | Orient, Franklin, 7S, 2E                     | Salem C, Marion, Jefferson, 1-2N, 1S, 1-2E |
| Main C, Crawford, Lawrence             | Orient N, Franklin, 7S, 2E                   | Samsville, Edwards, 1N, 11E                |
| Jasper, 5-8N, 10-14W                   | Oskaloosa, Clay, 3-4N, 5E                    | Samsville N, Edwards, 1N, 14W              |
| Maple Grove C, Edwards, Wayne,         | Oskaloosa E, Clay, 3N, 5-6E                  | Samsville N W, Edwards, 1N, 10E            |
| 1-2N, 9-10E                            |                                              | Samsville W, Edwards, 1N, 10E              |



TABLE 1 - LOCATIONS OF ILLINOIS OIL FIELDS, Continued

| Name, County, Township and Range     | Name, County, Township and Range  | Name, County, Township and Range |
|--------------------------------------|-----------------------------------|----------------------------------|
| Sandoval, Marion, 2N, 1E             | Sumpter E, White, 4-5S, 10E       | 13-14N, 13-14W                   |
| Sandoval W, Clinton, 2N, 1W          | Sumpter N, White, 4S, 9E          | Waterloo, Monroe, 1-2S, 10W      |
| Sante Fe, Clinton, 1N, 3W            | Sumpter S, White, 4-5S, 9E        | Watson, Effingham, 7N, 5-6E      |
| Schnell, Richland, 2N, 9E            | Sumpter W, White, 4S, 9E          | Watson W, Effingham, 7N, 5E      |
| Schnell E, Richland, 2N, 9E          | Tamaroa, Perry, 4S, 1W            | Waverly, Morgan, 13N, 8W         |
| Sciota, McDonough, 7N, 3W            | Tamaroa S, Perry, 4S, 1W          | Weaver, Clark, 11N, 10W          |
| Seminary, Richland, 2N, 10E          | Tamaroa W, Perry, 4S, 2W          | West Frankfort C, Franklin       |
| Sesser C, Franklin, 5-6S, 1-2E       | Taylor Hill, Franklin, 5S, 4E     | 7S, 2-3E                         |
| Shattuc, Clinton, 2N, 1W             | Teutopolis, Effingham, 8N, 6E     | West Frankfort C, Franklin,      |
| Shattuc, Clinton, 2N, 1W             | Teutopolis S, Effingham, 8N, 6E   | 7S, 2-3E                         |
| Shattuc N, Clinton, 2N, 1W           | Thackeray, Hamilton, 5S, 7E       | West Seminary, Clay, 2N, 7E      |
| Shawneetown, Gallatin, 9S, 9E        | Thompsonville, Franklin, 7S, 4S   | Westfield, Clark, Coles,         |
| Shawneetown E, Gallatin, 9S, 10E     | Thompsonville E, Franklin, 7S, 4E | 11-12N, 11E-14W                  |
| Shawneetown N, Gallatin, 9S, 10E     | Thompsonville N, Franklin, 7S, 4E | Westfield E, Clark,              |
| Shelbyville C, Shelby, 11N, 4E       | Tilden, Randolph, 4S, 5W          | 11-12N, 14W                      |
| Shumway, Effingham, 9N, 5E           | Tilden N, St. Clair, 3S, 6W       | Westfield N, Coles, 12N, 14W     |
| Sicily, Christian, 13N, 4W           | Toliver E, Clay, 5N, 6-7E         | Whittington, Franklin, 5S, 3E    |
| Siggins, Cumberland, Clark,          | Toliver S, Clay, 4N, 6E           | Whittington S, Franklin,         |
| 10-11N, 10-11E, 14W                  | Tonti, Marion, 2-3N, 2E           | 5-6S, 3E                         |
| Siloam, Brown, 2S, 4W                | Tovey, Christian, 13N, 3W         | Whittington W, Franklin,         |
| Sorento C, Bond, 6N, 4W              | Trumbull C, White, 5S, 8-9E       | 5S, 2-3E                         |
| Sorento W, Bond, 6N, 4W              | Trumbull N, White, 4S, 8E         | Wilberton, Fayette, 5N, 2-3E     |
| Sparta, Randolph, 4-5S, 5-6W         | Turkey Bend, Perry, 4S, 2W        | Williams C, Jefferson, 2-3S, 2E  |
| Sparta S, Randolph, 5S, 5W           | Valier, Franklin, 6S, 2E          | Willow Hill E, Jasper,           |
| Springfield E, Sangamon, 15N, 4W     | Virden W, Macoupin, 12N, 7W       | 6-7N, 10-11E                     |
| Staunton, Macoupin, 7N, 7W           | Waggoner, Montgomery, 11N, 5W     | Witt W, Montgomery, 10N, 3W      |
| Staunton W, Macoupin, 7N, 7W         | Wakefield, Jasper, 5N, 9E         | Woburn C, Bond, 6-7N, 2W         |
| Stewardson, Shelby, 9N, 6E           | Wakefield N, Jasper, 5N, 9E       | Woodlawn, Jefferson, 2-3S, 1-2E  |
| Stewardson E, Shelby, 9N, 6E         | Wakefield S, Richland, 5N, 9E     | Xenia, Clay, 2N, 5E              |
| Storms C, White, 5-6S, 9-10E         | Walpole, Hamilton, 6-7S, 6E       | Xenia E, Clay, 2N, 5E            |
| Stringtown, Richland, 4-5N, 11E, 14W | Walpole S, Hamilton, 7S, 6E       | Yale, Jasper, 8N, 11E            |
| Stringtown E, Richland, 4N, 14W      | Waltonville, Jefferson, 3S, 2E    | York, Cumberland, Clark,         |
| Stubblefield S, Bond, 4N, 3W         | Wamac, Marion, Clinton,           | 9-10N, 10-11E, 14W               |
| Summer, Lawrence, 4N, 13W            | Washington, 1N, 1E, 1W            | Zeigler, Franklin, 7S, 2E        |
| Summer Cen, Lawrence, 4N, 13W        | Wamac E, Marion, 1N, 1E           | Zenith, Wayne, 2N, 5E            |
| Summer S, Lawrence, 3N, 13W          | Wamac W, Clinton, 1N, 1W          | Zenith E, Wayne, 1N, 6E          |
| Sumpter, White, 4S, 9E               | Wapella E, DeWitt, 21N, 3E        | Zenith N, Wayne, 2N, 6E          |
| Sumpter E, White, 4-5S, 10E          | Warrenton-Borton, Edgar, Coles,   | Zenith S, Wayne, 1N, 5E          |

All acreage in a given pay inside an active flood unit in which there was at least one active injection well was considered to be active flood acreage. If the flood unit was abandoned, all acreage which had been subjected to injection was classified as abandoned flood acreage. Any acreage beneath flood units which was not being flooded was classified as undeveloped flood acreage. All these data are given in table 2 in columns entitled "Waterflood acres." The totals for all pays in each field are also given.

#### Remaining Primary

The productive acreage in each pay not in a waterflood unit was classified as remaining primary acreage and was broken into two categories—edge acres and interior acres—using the 10-acre production units described previously. Any unit offset on all four sides by production in a given pay zone was classified as 10 interior acres of production in that pay. Acreage in all other production units was classified as edge acres.

To determine the producing status of both the interior and the edge acreage, the acreage in each drilled production unit which contained at least one active producing well was classified as active. The acreage in each drilled production

unit in which all wells were abandoned was classified as abandoned. For each pay zone in each category (interior and edge), the ratio of the active acreage to the active plus the abandoned acreage times 100 was taken as the percentage of the acreage which was still active. These percentage figures were applied to the total edge and interior acreage figures for each pay to estimate the percentage of the total edge and interior acreage which was active in the entire field.

These data are in table 2 under the column "Remaining primary." The last line in these columns gives the totals of both the edge and interior acreage for all pay zones and the percentage of these totals which are still active in the entire field.

#### Salt Water Disposal Wells

In Illinois, salt water disposal wells are commonly found completed in pay zones in and around productive areas. Since it was impractical to relate these wells to specific production units, only the total number in each pay in each field was determined. These data are in table 2 under the column headed "No. of SWD wells." (Text is continued on page 37.)



TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS

| Field name     |              | Areal<br>acrea | Waterflood<br>acrea |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|----------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poroa-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name       | Pay<br>acrea | Act-<br>tive   | Absn-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| AB LAKE        |              | 80             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN    |              | 40             | 40                  | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 800                | 10                     | 18                   | 100                       | 35                     | 8                      |
| PALESTINE      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 1850               | 5                      | 18                   | 200                       | 36                     | 7                      |
| WALTERSBURG    |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2000               | 10                     | 16                   | 50                        | 37                     | 6                      |
| RENAULT        |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 2735               | 8                      | 15                   | 40                        | 35                     | 8                      |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2750               | 10                     | 16                   | 30                        | 36                     | 6                      |
| TOTALS & AVE   |              | 120            | 40                  | 0                | 0    | 80                | 0    | 25.0           | 0.0   | 0                       | 1734               | 9                      | 17                   | 72                        | 36                     | 7                      |
| AB LAKE S      |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2800               | 8                      | 16                   | 30                        | 36                     | 6                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2800               | 8                      | 16                   | 30                        | 36                     | 6                      |
| AB LAKE W      |              | 450            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN    |              | 50             | 0                   | 0                | 0    | 50                | 0    | 25.0           | 0.0   | 0                       | 725                | 10                     | 18                   | 100                       | 35                     | 8                      |
| WALTERSBURG    |              | 300            | 0                   | 140              | 80   | 80                | 0    | 66.7           | 0.0   | 0                       | 2020               | 20                     | 17                   | 50                        | 37                     | 6                      |
| TAR SPRINGS    |              | 30             | 0                   | 0                | 0    | 30                | 0    | 50.0           | 0.0   | 0                       | 2075               | 20                     | 19                   | 100                       | 38                     | 5                      |
| CYPRESS        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2420               | 10                     | 18                   | 100                       | 36                     | 6                      |
| AUX VASES      |              | 160            | 0                   | 60               | 0    | 100               | 0    | 42.9           | 0.0   | 0                       | 2730               | 7                      | 16                   | 30                        | 36                     | 6                      |
| MCCLOSKY       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2830               | 2                      | 14                   | 30                        | 38                     | 5                      |
| TOTALS & AVE   |              | 560            | 0                   | 200              | 80   | 280               | 0    | 47.7           | 0.0   | 0                       | 2048               | 15                     | 17                   | 54                        | 37                     | 6                      |
| AOEN C         |              | 2370           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 1570           | 620                 | 940              | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3200               | 10                     | 21                   | 150                       | 39                     | 5                      |
| STE GEN        |              | 2010           | 1010                | 960              | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 3300               | 10                     | 17                   | 180                       | 39                     | 6                      |
| SALEM          |              | 50             | 0                   | 0                | 30   | 20                | 0    | 50.0           | 0.0   | 0                       | 3735               | 16                     | 14                   | 40                        | 36                     | 7                      |
| ULLIN          |              | 30             | 0                   | 0                | 30   | 0                 | 0    | 0.0            | 0.0   | 0                       | 4130               | 16                     | 12                   | 25                        | 39                     | 4                      |
| OUTCH CREEK    |              | 30             | 0                   | 0                | 30   | 0                 | 0    | 0.0            | 0.0   | 0                       | 5320               | 10                     | 10                   | 10                        | 40                     | 5                      |
| TOTALS & AVE   |              | 3690           | 1630                | 1900             | 90   | 70                | 0    | 14.3           | 0.0   | 0                       | 3294               | 10                     | 18                   | 161                       | 39                     | 6                      |
| AOEN E         |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKY       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3430               | 6                      | 17                   | 150                       | 39                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3430               | 6                      | 17                   | 150                       | 39                     | 5                      |
| AOEN S         |              | 330            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 170            | 130                 | 0                | 0    | 40                | 0    | 75.0           | 0.0   | 0                       | 3250               | 9                      | 21                   | 150                       | 39                     | 5                      |
| STE GEN        |              | 330            | 290                 | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 3310               | 14                     | 16                   | 100                       | 37                     | 7                      |
| TOTALS & AVE   |              | 500            | 420                 | 0                | 0    | 80                | 0    | 37.5           | 0.0   | 0                       | 3295               | 12                     | 17                   | 112                       | 37                     | 7                      |
| AKIN           |              | 700            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 170            | 110                 | 0                | 0    | 60                | 0    | 0.0            | 0.0   | 0                       | 2850               | 15                     | 17                   | 100                       | 35                     | 9                      |
| AUX VASES      |              | 490            | 350                 | 50               | 0    | 90                | 0    | 80.0           | 0.0   | 0                       | 3100               | 20                     | 18                   | 150                       | 37                     | 8                      |
| STE GEN        |              | 70             | 0                   | 0                | 20   | 50                | 0    | 66.7           | 0.0   | 0                       | 3100               | 20                     | 14                   | 30                        | 38                     | 5                      |
| TOTALS & AVE   |              | 730            | 460                 | 50               | 20   | 200               | 0    | 52.7           | 0.0   | 0                       | 3054               | 19                     | 17                   | 129                       | 37                     | 8                      |
| AKIN W         |              | 120            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 30             | 0                   | 0                | 0    | 30                | 0    | 50.0           | 0.0   | 0                       | 2725               | 9                      | 17                   | 100                       | 35                     | 9                      |
| STE GEN        |              | 70             | 0                   | 0                | 0    | 70                | 0    | 80.0           | 0.0   | 0                       | 3040               | 10                     | 14                   | 30                        | 37                     | 6                      |
| SALEM          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3500               | 10                     | 11                   | 20                        | 38                     | 5                      |
| ULLIN          |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0          | 0.0   | 0                       | 3950               | 10                     | 10                   | 15                        | 37                     | 5                      |
| TOTALS & AVE   |              | 130            | 0                   | 0                | 0    | 130               | 0    | 77.7           | 0.0   | 0                       | 3153               | 10                     | 14                   | 42                        | 37                     | 6                      |
| ALBION CENTRAL |              | 110            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 110            | 0                   | 0                | 0    | 110               | 0    | 28.6           | 0.0   | 0                       | 3350               | 9                      | 17                   | 80                        | 38                     | 5                      |
| TOTALS & AVE   |              | 110            | 0                   | 0                | 0    | 110               | 0    | 28.6           | 0.0   | 0                       | 3350               | 9                      | 17                   | 80                        | 38                     | 5                      |
| ALBION C       |              | 5610           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN    |              | 1950           | 1710                | 40               | 60   | 130               | 0    | 20.0           | 0.0   | 0                       | 1650               | 10                     | 20                   | 200                       | 28                     | 25                     |
| DEGONIA        |              | 10             | 0                   | 0                | 10   | 0                 | 0    | 0.0            | 0.0   | 0                       | 2125               | 10                     | 16                   | 75                        | 35                     | 8                      |
| WALTERSBURG    |              | 690            | 520                 | 40               | 70   | 60                | 0    | 83.3           | 0.0   | 0                       | 2350               | 15                     | 19                   | 100                       | 36                     | 8                      |
| TAR SPRINGS    |              | 140            | 0                   | 30               | 80   | 30                | 0    | 100.0          | 0.0   | 1                       | 2450               | 5                      | 18                   | 100                       | 37                     | 6                      |
| HARDINSBURG    |              | 70             | 0                   | 0                | 50   | 20                | 0    | 50.0           | 0.0   | 0                       | 2650               | 10                     | 18                   | 50                        | 37                     | 6                      |
| CYPRESS        |              | 510            | 140                 | 330              | 10   | 30                | 0    | 0.0            | 0.0   | 0                       | 2850               | 15                     | 17                   | 50                        | 37                     | 6                      |
| BETHEL         |              | 860            | 190                 | 20               | 310  | 310               | 30   | 45.8           | 66.7  | 0                       | 2900               | 13                     | 18                   | 50                        | 36                     | 7                      |
| RENOIST        |              | 170            | 0                   | 0                | 130  | 40                | 0    | 50.0           | 0.0   | 0                       | 3000               | 13                     | 20                   | 100                       | 34                     | 9                      |
| AUX VASES      |              | 1600           | 660                 | 40               | 220  | 590               | 90   | 62.5           | 66.7  | 3                       | 3000               | 13                     | 19                   | 35                        | 38                     | 6                      |
| STE GEN        |              | 1770           | 740                 | 50               | 280  | 580               | 120  | 58.1           | 91.7  | 1                       | 3110               | 9                      | 16                   | 900                       | 39                     | 4                      |
| TOTALS & AVE   |              | 7770           | 3960                | 550              | 1220 | 1790              | 240  | 55.0           | 79.2  | 5                       | 2615               | 11                     | 18                   | 239                       | 35                     | 10                     |
| ALBION E       |              | 770            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 120            | 0                   | 0                | 0    | 120               | 0    | 44.4           | 0.0   | 0                       | 2800               | 10                     | 18                   | 50                        | 32                     | 13                     |
| BETHEL         |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 2920               | 9                      | 18                   | 50                        | 38                     | 5                      |
| RENOIST        |              | 60             | 0                   | 0                | 0    | 60                | 0    | 100.0          | 0.0   | 0                       | 2930               | 10                     | 20                   | 100                       | 38                     | 6                      |
| AUX VASES      |              | 290            | 0                   | 0                | 0    | 280               | 10   | 65.0           | 100.0 | 0                       | 3020               | 17                     | 18                   | 40                        | 34                     | 9                      |
| STE GEN        |              | 500            | 0                   | 0                | 0    | 440               | 60   | 48.3           | 80.0  | 0                       | 3100               | 8                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 990            | 0                   | 0                | 0    | 920               | 70   | 56.3           | 82.9  | 0                       | 3019               | 11                     | 17                   | 67                        | 36                     | 8                      |
| ALBION NW      |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKY       |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 3300               | 6                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 3300               | 6                      | 16                   | 100                       | 38                     | 5                      |
| ALBION W       |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKY       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3375               | 5                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3375               | 5                      | 16                   | 100                       | 38                     | 5                      |
| ALLENDALE      |              | 9040           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN    |              | 5090           | 2170                | 490              | 20   | 2240              | 190  | 72.5           | 52.9  | 7                       | 1450               | 16                     | 18                   | 400                       | 33                     | 11                     |
| WALTERSBURG    |              | 310            | 20                  | 0                | 30   | 240               | 20   | 88.2           | 100.0 | 0                       | 1550               | 15                     | 17                   | 100                       | 31                     | 14                     |
| TAR SPRINGS    |              | 240            | 30                  | 20               | 40   | 150               | 0    | 64.3           | 0.0   | 0                       | 1600               | 20                     | 19                   | 100                       | 30                     | 26                     |
| HARDINSBURG    |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 1780               | 10                     | 17                   | 50                        | 34                     | 8                      |
| CYPRESS        |              | 1760           | 690                 | 130              | 140  | 730               | 50   | 61.8           | 80.0  | 0                       | 1920               | 10                     | 18                   | 100                       | 34                     | 8                      |
| PT CK GROUP    |              | 1250           | 150                 | 130              | 330  | 470               | 170  | 75.0           | 100.0 | 0                       | 2000               | 10                     | 18                   | 75                        | 35                     | 6                      |
| AUX VASES      |              | 40             | 0                   | 0                | 0    | 40                | 0    | 50.0           | 0.0   | 0                       | 2300               | 12                     | 17                   | 50                        | 37                     | 6                      |
| STE GEN        |              | 760            | 20                  | 0                | 150  | 550               | 40   | 60.5           | 66.7  | 0                       | 2300               | 8                      | 17                   | 200                       | 36                     | 8                      |
| ST LOUIS       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2275               | 15                     | 12                   | 30                        | 39                     | 5                      |
| SALEM          |              | 40             | 0                   | 0                | 0    | 40                | 0    | 100.0          | 0.0   | 0                       | 2774               | 10                     | 13                   | 30                        | 39                     | 5                      |
| WARSAW         |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0          | 0.0   | 0                       | 2806               | 12                     | 11                   | 20                        | 39                     | 5                      |
| TOTALS & AVE   |              | 9530           | 3080                | 770              | 710  | 4500              | 470  | 70.4           | 76.0  | 7                       | 1628               | 13                     | 18                   | 292                       | 33                     | 11                     |

\*Salt water disposal wells

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name       |           | Areal acres | Waterflood acres |              |      | Remaining primary |      |           |       | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|------------------|-----------|-------------|------------------|--------------|------|-------------------|------|-----------|-------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                  |           |             |                  |              |      | Acres             |      | % Active  |       |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name         | Pay acres | Act-tive    | Aban-doned       | Unde-veloped | Edge | Inter-ior         | Edge | Inter-ior |       |                   |                    |                 |               |                    |                 |                 |
| ALMA             |           | 60          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 1800               | 7               | 17            | 150                | 35              | 7               |
| BENDIST          |           | 50          | 0                | 0            | 0    | 50                | 0    | 25.0      | 0.0   | 0                 | 1950               | 8               | 19            | 100                | 36              | 6               |
| SPAR MTN         |           | 40          | 0                | 0            | 0    | 40                | 0    | 0.0       | 0.0   | 0                 | 2085               | 10              | 17            | 50                 | 36              | 7               |
| TOTALS & AVE     |           | 100         | 0                | 0            | 0    | 100               | 0    | 22.5      | 0.0   | 0                 | 2000               | 9               | 18            | 81                 | 36              | 7               |
| AMITY            |           | 60          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        |           | 60          | 0                | 0            | 0    | 60                | 0    | 25.0      | 0.0   | 0                 | 2960               | 5               | 17            | 200                | 36              | 7               |
| TOTALS & AVE     |           | 60          | 0                | 0            | 0    | 60                | 0    | 25.0      | 0.0   | 0                 | 2960               | 5               | 17            | 200                | 36              | 7               |
| AMITY S          |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2890               | 4               | 17            | 200                | 38              | 5               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2890               | 4               | 17            | 200                | 38              | 5               |
| AMITY W          |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2925               | 12              | 16            | 70                 | 38              | 6               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2925               | 12              | 16            | 70                 | 38              | 6               |
| ASHLEY           |           | 210         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BENDIST          |           | 210         | 0                | 0            | 0    | 170               | 40   | 71.4      | 100.0 | 3                 | 1430               | 7               | 17            | 100                | 30              | 16              |
| TOTALS & AVE     |           | 210         | 0                | 0            | 0    | 170               | 40   | 71.4      | 100.0 | 3                 | 1430               | 7               | 17            | 100                | 30              | 16              |
| ASHMORE E        |           | 30          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 30          | 0                | 0            | 0    | 30                | 0    | 100.0     | 0.0   | 1                 | 415                | 14              | 19            | 200                | 30              | 21              |
| TOTALS & AVE     |           | 30          | 0                | 0            | 0    | 30                | 0    | 100.0     | 0.0   | 1                 | 415                | 14              | 19            | 200                | 30              | 21              |
| ASHMORE S        |           | 290         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 290         | 0                | 0            | 0    | 250               | 40   | 100.0     | 100.0 | 0                 | 420                | 8               | 20            | 200                | 24              | 99              |
| MISSISSIPPN      |           | 20          | 0                | 0            | 0    | 10                | 10   | 0.0       | 100.0 | 0                 | 475                | 17              | 15            | 30                 | 38              | 5               |
| TOTALS & AVE     |           | 310         | 0                | 0            | 0    | 260               | 50   | 96.2      | 100.0 | 0                 | 427                | 9               | 19            | 178                | 26              | 87              |
| ASSUMPTION CNTR  |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| DEVONIAN         |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2430               | 24              | 12            | 50                 | 38              | 5               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2430               | 24              | 12            | 50                 | 38              | 5               |
| ASSUMPTION C     |           | 2400        |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BENDIST          |           | 590         | 490              | 0            | 0    | 100               | 0    | 83.3      | 0.0   | 0                 | 1050               | 13              | 19            | 100                | 36              | 6               |
| SPAR MTN         |           | 220         | 220              | 0            | 0    | 0                 | 0    | 0.0       | 0.0   | 0                 | 1170               | 8               | 22            | 500                | 40              | 4               |
| LINGLF           |           | 2240        | 1720             | 0            | 0    | 460               | 60   | 60.0      | 100.0 | 1                 | 230                | 20              | 12            | 50                 | 38              | 5               |
| TOTALS & AVE     |           | 3050        | 2430             | 0            | 0    | 560               | 60   | 64.2      | 100.0 | 1                 | 376                | 18              | 13            | 72                 | 38              | 5               |
| ASSUMPTION S     |           | 50          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| LINGLE           |           | 50          | 0                | 0            | 0    | 50                | 0    | 33.3      | 0.0   | 0                 | 2630               | 15              | 12            | 50                 | 39              | 5               |
| TOTALS & AVE     |           | 50          | 0                | 0            | 0    | 50                | 0    | 33.3      | 0.0   | 0                 | 2630               | 15              | 12            | 50                 | 39              | 5               |
| AVA-CAMPBELL HIL |           | 140         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 140         | 0                | 0            | 0    | 130               | 10   | 0.0       | 0.0   | 0                 | 780                | 18              | 18            | 50                 | 36              | 7               |
| TOTALS & AVE     |           | 140         | 0                | 0            | 0    | 130               | 10   | 0.0       | 0.0   | 0                 | 780                | 18              | 18            | 50                 | 36              | 7               |
| BALOWIN          |           | 30          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| SILURIAN         |           | 30          | 0                | 0            | 0    | 30                | 0    | 33.3      | 0.0   | 0                 | 1535               | 65              | 12            | 10                 | 32              | 11              |
| TOTALS & AVE     |           | 30          | 0                | 0            | 0    | 30                | 0    | 33.3      | 0.0   | 0                 | 1535               | 65              | 12            | 10                 | 32              | 11              |
| BARNHILL         |           | 1890        |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        |           | 950         | 370              | 230          | 0    | 300               | 40   | 44.0      | 100.0 | 0                 | 3270               | 15              | 19            | 50                 | 39              | 5               |
| STE GEN          |           | 1140        | 0                | 560          | 140  | 350               | 90   | 55.2      | 55.6  | 1                 | 3370               | 16              | 17            | 80                 | 38              | 5               |
| ST LOUIS         |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 3520               | 7               | 14            | 20                 | 38              | 5               |
| SALEM            |           | 30          | 0                | 0            | 30   | 0                 | 0    | 0.0       | 0.0   | 0                 | 3800               | 8               | 15            | 60                 | 39              | 4               |
| TOTALS & AVE     |           | 2130        | 370              | 790          | 170  | 660               | 130  | 49.3      | 69.2  | 1                 | 3330               | 15              | 18            | 67                 | 38              | 5               |
| BARTELSD         |           | 570         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 370         | 90               | 190          | 0    | 90                | 0    | 85.7      | 0.0   | 0                 | 985                | 15              | 21            | 210                | 36              | 7               |
| SILURIAN         |           | 380         | 0                | 0            | 300  | 80                | 0    | 100.0     | 0.0   | 0                 | 2450               | 12              | 12            | 50                 | 42              | 3               |
| TOTALS & AVE     |           | 750         | 90               | 190          | 300  | 170               | 0    | 92.4      | 0.0   | 0                 | 1646               | 13              | 17            | 138                | 39              | 5               |
| BARTELSD E       |           | 210         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| SILURIAN         |           | 210         | 0                | 0            | 0    | 180               | 30   | 92.3      | 100.0 | 2                 | 2550               | 7               | 13            | 50                 | 42              | 3               |
| TOTALS & AVE     |           | 210         | 0                | 0            | 0    | 180               | 30   | 92.3      | 100.0 | 2                 | 2550               | 7               | 13            | 50                 | 42              | 3               |
| BARTELSD S       |           | 60          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| DEVONIAN         |           | 60          | 0                | 0            | 0    | 50                | 10   | 0.0       | 0.0   | 0                 | 2475               | 3               | 15            | 50                 | 40              | 3               |
| TOTALS & AVE     |           | 60          | 0                | 0            | 0    | 50                | 10   | 0.0       | 0.0   | 0                 | 2475               | 3               | 15            | 50                 | 40              | 3               |
| BARTELSD W       |           | 260         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 260         | 0                | 0            | 0    | 240               | 20   | 62.5      | 100.0 | 1                 | 970                | 15              | 20            | 200                | 36              | 9               |
| SILURIAN         |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2450               | 7               | 15            | 75                 | 40              | 3               |
| TOTALS & AVE     |           | 270         | 0                | 0            | 0    | 250               | 20   | 64.0      | 100.0 | 1                 | 996                | 15              | 20            | 198                | 36              | 9               |
| BEAUCOUP         |           | 280         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CLEAR CREEK      |           | 280         | 0                | 0            | 0    | 160               | 120  | 100.0     | 100.0 | 1                 | 3070               | 10              | 13            | 30                 | 39              | 6               |
| TRENTON          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 4100               | 5               | 14            | 30                 | 39              | 6               |
| TOTALS & AVE     |           | 290         | 0                | 0            | 0    | 170               | 120  | 100.0     | 100.0 | 1                 | 3088               | 10              | 13            | 30                 | 39              | 6               |
| BEAUCOUP S       |           | 260         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BENDIST          |           | 260         | 250              | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 1430               | 10              | 18            | 110                | 36              | 7               |
| TOTALS & AVE     |           | 260         | 250              | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 1430               | 10              | 18            | 110                | 36              | 7               |
| BEAVER CREEK     |           | 180         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BENDIST          |           | 180         | 0                | 50           | 0    | 90                | 40   | 57.1      | 100.0 | 1                 | 1130               | 4               | 21            | 208                | 34              | 10              |
| TOTALS & AVE     |           | 180         | 0                | 50           | 0    | 90                | 40   | 57.1      | 100.0 | 1                 | 1130               | 4               | 21            | 208                | 34              | 10              |
| BEAVER CREEK N   |           | 80          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BENDIST          |           | 80          | 0                | 0            | 0    | 80                | 0    | 16.7      | 0.0   | 0                 | 1115               | 5               | 20            | 200                | 24              | 99              |
| TOTALS & AVE     |           | 80          | 0                | 0            | 0    | 80                | 0    | 16.7      | 0.0   | 0                 | 1115               | 5               | 20            | 200                | 24              | 99              |
| BEAVER CREEK S   |           | 550         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 1000               | 20              | 17            | 150                | 36              | 7               |
| BENDIST          |           | 540         | 60               | 40           | 0    | 400               | 40   | 66.7      | 100.0 | 4                 | 1200               | 7               | 18            | 100                | 34              | 10              |
| TOTALS & AVE     |           | 550         | 60               | 40           | 0    | 410               | 40   | 67.5      | 100.0 | 4                 | 1190               | 7               | 18            | 103                | 34              | 10              |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name      |          | Areal acres | Waterflood acrea |            |              | Remaining primary |            |          |            | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|-----------------|----------|-------------|------------------|------------|--------------|-------------------|------------|----------|------------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                 |          |             |                  |            |              | Acrea             |            | % Active |            |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
|                 | Psy name | Pay acrea   | Act-tive         | Aban-doned | Unde-veloped | Edge              | Inter-rior | Edge     | Inter-rior |                   |                    |                 |               |                    |                 |                 |
| BECKEMEYER GAS  |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 1070               | 23              | 20            | 200                | 36              | 7               |
| TOTALS & AVE    |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 1070               | 23              | 20            | 200                | 36              | 7               |
| BELLAIR         |          | 2220        |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN     |          | 2110        | 930              | 80         | 0            | 910               | 210        | 3.3      | 0.0        | 0                 | 500                | 30              | 19            | 150                | 32              | 15              |
| CYPRESS         |          | 40          | 0                | 0          | 0            | 40                | 0          | 50.0     | 0.0        | 0                 | 1000               | 15              | 18            | 100                | 36              | 7               |
| BENOIST         |          | 40          | 0                | 0          | 0            | 40                | 0          | 100.0    | 0.0        | 0                 | 1100               | 12              | 16            | 80                 | 36              | 7               |
| RENAULT         |          | 30          | 0                | 0          | 0            | 30                | 0          | 100.0    | 0.0        | 0                 | 830                | 6               | 15            | 70                 | 37              | 6               |
| AUX VASES       |          | 220         | 0                | 0          | 0            | 210               | 10         | 50.0     | 100.0      | 0                 | 1200               | 10              | 14            | 10                 | 39              | 5               |
| OHARA           |          | 30          | 0                | 0          | 0            | 30                | 0          | 100.0    | 0.0        | 0                 | 860                | 4               | 16            | 150                | 37              | 6               |
| TOTALS & AVE    |          | 2470        | 930              | 80         | 0            | 1260              | 220        | 20.2     | 4.5        | 0                 | 533                | 27              | 19            | 144                | 32              | 15              |
| BELLE PRAIRIE   |          | 290         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |          | 30          | 0                | 0          | 0            | 30                | 0          | 33.3     | 0.0        | 0                 | 3250               | 10              | 18            | 100                | 37              | 6               |
| MCCLOSKEY       |          | 260         | 0                | 0          | 0            | 230               | 30         | 50.0     | 0.0        | 1                 | 3420               | 6               | 19            | 100                | 38              | 6               |
| TOTALS & AVE    |          | 290         | 0                | 0          | 0            | 260               | 30         | 48.1     | 0.0        | 1                 | 3393               | 6               | 19            | 100                | 38              | 6               |
| BELLE PRAIRIE W |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| ULLIN           |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 4200               | 6               | 12            | 30                 | 37              | 6               |
| TOTALS & AVE    |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 4200               | 6               | 12            | 30                 | 37              | 6               |
| BELLE RIVE      |          | 110         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY       |          | 110         | 0                | 0          | 0            | 110               | 0          | 66.7     | 0.0        | 0                 | 3085               | 6               | 17            | 100                | 37              | 8               |
| TOTALS & AVE    |          | 110         | 0                | 0          | 0            | 110               | 0          | 66.7     | 0.0        | 0                 | 3085               | 6               | 17            | 100                | 37              | 8               |
| BELLMONT        |          | 30          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| BETHEL          |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 2650               | 7               | 18            | 50                 | 38              | 5               |
| OHARA           |          | 20          | 0                | 0          | 0            | 20                | 0          | 50.0     | 0.0        | 0                 | 2850               | 7               | 17            | 100                | 40              | 4               |
| TOTALS & AVE    |          | 30          | 0                | 0          | 0            | 30                | 0          | 33.3     | 0.0        | 0                 | 2783               | 7               | 17            | 83                 | 39              | 4               |
| BEMAN           |          | 530         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |          | 100         | 0                | 0          | 0            | 100               | 0          | 88.9     | 0.0        | 0                 | 1800               | 20              | 18            | 50                 | 38              | 6               |
| STE GEN         |          | 440         | 0                | 0          | 0            | 370               | 70         | 52.2     | 100.0      | 4                 | 1750               | 7               | 16            | 70                 | 38              | 5               |
| TOTALS & AVE    |          | 540         | 0                | 0          | 0            | 470               | 70         | 60.0     | 100.0      | 4                 | 1770               | 9               | 17            | 62                 | 38              | 5               |
| BEMAN E         |          | 120         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |          | 40          | 0                | 0          | 0            | 40                | 0          | 0.0      | 0.0        | 0                 | 1800               | 20              | 18            | 50                 | 38              | 6               |
| STE GEN         |          | 120         | 0                | 0          | 0            | 120               | 0          | 33.3     | 0.0        | 0                 | 1860               | 7               | 14            | 70                 | 38              | 5               |
| TOTALS & AVE    |          | 160         | 0                | 0          | 0            | 160               | 0          | 25.0     | 0.0        | 0                 | 1831               | 10              | 16            | 60                 | 38              | 5               |
| BENNINGTON S    |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY       |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 3240               | 8               | 16            | 100                | 37              | 6               |
| TOTALS & AVE    |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 3240               | 8               | 16            | 100                | 37              | 6               |
| BENTON          |          | 2360        |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN     |          | 20          | 0                | 0          | 0            | 20                | 0          | 100.0    | 0.0        | 0                 | 1700               | 9               | 18            | 150                | 33              | 13              |
| TAR SPRINGS     |          | 2360        | 2270             | 0          | 0            | 90                | 0          | 66.7     | 0.0        | 0                 | 2100               | 35              | 19            | 30                 | 38              | 5               |
| AUX VASES       |          | 300         | 250              | 0          | 0            | 50                | 0          | 100.0    | 0.0        | 0                 | 2750               | 15              | 18            | 197                | 38              | 5               |
| STE GEN         |          | 190         | 180              | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 2800               | 8               | 15            | 100                | 37              | 6               |
| ST LOUIS        |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 2990               | 6               | 12            | 10                 | 38              | 5               |
| ULLIN           |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 3700               | 5               | 12            | 25                 | 38              | 5               |
| TOTALS & AVE    |          | 2890        | 2700             | 0          | 0            | 190               | 0          | 84.2     | 0.0        | 0                 | 2146               | 31              | 19            | 40                 | 38              | 5               |
| BENTON N        |          | 630         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         |          | 100         | 0                | 0          | 0            | 90                | 10         | 100.0    | 100.0      | 0                 | 2450               | 17              | 18            | 150                | 38              | 5               |
| PT CK GROUP     |          | 180         | 180              | 0          | 0            | 0                 | 0          | 0.0      | 0.0        | 0                 | 2550               | 16              | 16            | 20                 | 38              | 5               |
| AUX VASES       |          | 140         | 130              | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 2700               | 10              | 18            | 100                | 39              | 4               |
| STE GEN         |          | 460         | 370              | 0          | 0            | 70                | 0          | 100.0    | 0.0        | 0                 | 2730               | 13              | 15            | 50                 | 36              | 6               |
| TOTALS & AVE    |          | 880         | 680              | 0          | 0            | 170               | 10         | 94.1     | 100.0      | 0                 | 2643               | 14              | 16            | 63                 | 37              | 5               |
| BERRY           |          | 570         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| DEVONIAN        |          | 60          | 0                | 0          | 0            | 60                | 0          | 50.0     | 0.0        | 0                 | 1750               | 4               | 12            | 30                 | 38              | 6               |
| SILURIAN        |          | 510         | 0                | 0          | 0            | 460               | 50         | 69.4     | 100.0      | 0                 | 1730               | 35              | 11            | 15                 | 38              | 5               |
| TOTALS & AVE    |          | 570         | 0                | 0          | 0            | 520               | 50         | 67.2     | 100.0      | 0                 | 1730               | 32              | 11            | 15                 | 38              | 5               |
| BERRYVILLE C    |          | 340         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| STE GEN         |          | 340         | 0                | 120        | 0            | 220               | 10         | 0.0      | 100.0      | 2                 | 2850               | 14              | 16            | 100                | 38              | 6               |
| TOTALS & AVE    |          | 340         | 0                | 120        | 0            | 220               | 10         | 0.0      | 100.0      | 2                 | 2850               | 14              | 16            | 100                | 38              | 6               |
| BESSIE          |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| OHARA           |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 2900               | 10              | 14            | 30                 | 39              | 4               |
| TOTALS & AVE    |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 2900               | 10              | 14            | 30                 | 39              | 4               |
| BIBLE GROVE N   |          | 200         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         |          | 130         | 0                | 0          | 0            | 130               | 0          | 80.0     | 0.0        | 0                 | 2535               | 10              | 17            | 45                 | 39              | 6               |
| STE GEN         |          | 120         | 0                | 0          | 0            | 110               | 10         | 0.0      | 0.0        | 0                 | 2835               | 6               | 16            | 233                | 37              | 6               |
| TOTALS & AVE    |          | 250         | 0                | 0          | 0            | 240               | 10         | 43.3     | 0.0        | 0                 | 2642               | 8               | 17            | 112                | 38              | 6               |
| BIBLE GROVE S   |          | 50          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         |          | 20          | 0                | 0          | 0            | 20                | 0          | 100.0    | 0.0        | 0                 | 2500               | 10              | 17            | 40                 | 36              | 7               |
| AUX VASES       |          | 40          | 0                | 0          | 0            | 40                | 0          | 50.0     | 0.0        | 0                 | 2740               | 10              | 17            | 50                 | 38              | 6               |
| TOTALS & AVE    |          | 60          | 0                | 0          | 0            | 60                | 0          | 66.7     | 0.0        | 0                 | 2660               | 10              | 17            | 47                 | 37              | 6               |
| BLACK BRANCH    |          | 30          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| SILURIAN        |          | 30          | 0                | 0          | 0            | 30                | 0          | 100.0    | 0.0        | 0                 | 1600               | 10              | 12            | 20                 | 38              | 4               |
| TOTALS & AVE    |          | 30          | 0                | 0          | 0            | 30                | 0          | 100.0    | 0.0        | 0                 | 1600               | 10              | 12            | 20                 | 38              | 4               |
| BLACKLANDO      |          | 380         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| SILURIAN        |          | 380         | 0                | 50         | 0            | 290               | 30         | 31.6     | 66.7       | 0                 | 1950               | 25              | 10            | 11                 | 39              | 4               |
| TOTALS & AVE    |          | 380         | 0                | 50         | 0            | 290               | 30         | 31.6     | 66.7       | 0                 | 1950               | 25              | 10            | 11                 | 39              | 4               |
| BLACKLANDO N    |          | 230         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| SILURIAN        |          | 230         | 0                | 0          | 0            | 230               | 0          | 45.0     | 0.0        | 0                 | 1950               | 11              | 13            | 30                 | 39              | 4               |
| TOTALS & AVE    |          | 230         | 0                | 0          | 0            | 230               | 0          | 45.0     | 0.0        | 0                 | 1950               | 11              | 13            | 30                 | 39              | 4               |
| BLACK RIVER     |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CLORE           |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 1865               | 6               | 16            | 50                 | 36              | 6               |
| TOTALS & AVE    |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 1865               | 6               | 16            | 50                 | 36              | 6               |



TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name    |              | Areal<br>acres | Waterflood<br>scres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|---------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|               |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Psy name      | Pay<br>scres | Act-<br>tive   | Aben-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| BLAIRSVILLE W |              | 160            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN       |              | 160            | 0                   | 0                | 0    | 120               | 40   | 16.7           | 0.0   | 0                       | 3350               | 10                     | 18                   | 100                       | 37                     | 6                      |
| TOTALS & AVE  |              | 160            | 0                   | 0                | 0    | 120               | 40   | 16.7           | 0.0   | 0                       | 3350               | 10                     | 18                   | 100                       | 37                     | 6                      |
| BLUFORD       |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 3060               | 6                      | 17                   | 40                        | 38                     | 5                      |
| TOTALS & AVE  |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 3060               | 6                      | 17                   | 40                        | 38                     | 5                      |
| BOGOTA        |              | 190            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN       |              | 190            | 0                   | 0                | 0    | 150               | 40   | 25.0           | 50.0  | 0                       | 3100               | 6                      | 16                   | 150                       | 39                     | 4                      |
| TOTALS & AVE  |              | 190            | 0                   | 0                | 0    | 150               | 40   | 25.0           | 50.0  | 0                       | 3100               | 6                      | 16                   | 150                       | 39                     | 4                      |
| BOGOTA N      |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3080               | 3                      | 15                   | 150                       | 37                     | 6                      |
| TOTALS & AVE  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3080               | 3                      | 15                   | 150                       | 37                     | 6                      |
| BOGOTA S      |              | 300            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY     |              | 300            | 0                   | 0                | 0    | 240               | 60   | 76.5           | 50.0  | 0                       | 3075               | 8                      | 16                   | 200                       | 37                     | 6                      |
| TOTALS & AVE  |              | 300            | 0                   | 0                | 0    | 240               | 60   | 76.5           | 50.0  | 0                       | 3075               | 8                      | 16                   | 200                       | 37                     | 6                      |
| BOGOTA W      |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3080               | 6                      | 16                   | 200                       | 37                     | 6                      |
| TOTALS & AVE  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3080               | 6                      | 16                   | 200                       | 37                     | 6                      |
| BONE GAP C    |              | 1120           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2100               | 8                      | 18                   | 100                       | 32                     | 15                     |
| WALTERSBURG   |              | 170            | 0                   | 110              | 0    | 60                | 0    | 50.0           | 0.0   | 0                       | 2300               | 20                     | 17                   | 75                        | 35                     | 8                      |
| CYPRESS       |              | 100            | 90                  | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2700               | 10                     | 17                   | 50                        | 37                     | 5                      |
| BETHEL        |              | 40             | 0                   | 0                | 40   | 0                 | 0    | 0.0            | 0.0   | 0                       | 2880               | 15                     | 18                   | 25                        | 39                     | 6                      |
| AUX VASES     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3020               | 10                     | 18                   | 50                        | 36                     | 7                      |
| STE GEN       |              | 820            | 0                   | 0                | 20   | 550               | 250  | 20.8           | 12.5  | 0                       | 3040               | 6                      | 16                   | 200                       | 36                     | 7                      |
| TOTALS & AVE  |              | 1150           | 90                  | 110              | 60   | 640               | 250  | 24.2           | 12.5  | 0                       | 2740               | 9                      | 17                   | 130                       | 36                     | 7                      |
| BONE GAP E    |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN       |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 2980               | 15                     | 17                   | 50                        | 36                     | 7                      |
| TOTALS & AVE  |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 2980               | 15                     | 17                   | 50                        | 36                     | 7                      |
| BONE GAP W    |              | 90             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN       |              | 90             | 0                   | 0                | 0    | 80                | 10   | 50.0           | 100.0 | 0                       | 3290               | 5                      | 17                   | 50                        | 36                     | 7                      |
| TOTALS & AVE  |              | 90             | 0                   | 0                | 0    | 80                | 10   | 50.0           | 100.0 | 0                       | 3290               | 5                      | 17                   | 50                        | 36                     | 7                      |
| BOULDER       |              | 580            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST       |              | 500            | 0                   | 450              | 0    | 50                | 0    | 0.0            | 0.0   | 0                       | 1200               | 25                     | 18                   | 100                       | 37                     | 6                      |
| GENEVA        |              | 470            | 0                   | 0                | 0    | 280               | 190  | 0.0            | 0.0   | 0                       | 2850               | 7                      | 18                   | 200                       | 35                     | 9                      |
| SILURIAN      |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2850               | 5                      | 14                   | 50                        | 40                     | 3                      |
| TOTALS & AVE  |              | 1010           | 0                   | 450              | 0    | 370               | 190  | 0.0            | 0.0   | 0                       | 1560               | 16                     | 18                   | 120                       | 37                     | 7                      |
| BOULDER E     |              | 50             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN      |              | 50             | 0                   | 0                | 0    | 50                | 0    | 0.0            | 0.0   | 0                       | 2850               | 5                      | 12                   | 20                        | 39                     | 5                      |
| TOTALS & AVE  |              | 50             | 0                   | 0                | 0    | 50                | 0    | 0.0            | 0.0   | 0                       | 2850               | 5                      | 12                   | 20                        | 39                     | 5                      |
| BOURBON C     |              | 930            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN      |              | 930            | 280                 | 440              | 0    | 210               | 0    | 25.0           | 0.0   | 0                       | 1600               | 12                     | 17                   | 200                       | 34                     | 8                      |
| TOTALS & AVE  |              | 930            | 280                 | 440              | 0    | 210               | 0    | 25.0           | 0.0   | 0                       | 1600               | 12                     | 17                   | 200                       | 34                     | 8                      |
| BOURBON S     |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1690               | 4                      | 17                   | 200                       | 34                     | 8                      |
| TOTALS & AVE  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1690               | 4                      | 17                   | 200                       | 34                     | 8                      |
| BOWYER        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2880               | 4                      | 16                   | 100                       | 36                     | 10                     |
| TOTALS & AVE  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2880               | 4                      | 16                   | 100                       | 36                     | 10                     |
| BOYO          |              | 1460           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST       |              | 1450           | 1450                | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 2050               | 17                     | 18                   | 175                       | 35                     | 7                      |
| AUX VASES     |              | 620            | 580                 | 40               | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 2130               | 12                     | 21                   | 24                        | 37                     | 6                      |
| OHARA         |              | 30             | 0                   | 0                | 30   | 0                 | 0    | 0.0            | 0.0   | 0                       | 2230               | 5                      | 14                   | 50                        | 39                     | 4                      |
| TRENTON       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 5000               | 20                     | 10                   | 20                        | 40                     | 4                      |
| TOTALS & AVE  |              | 2110           | 2030                | 40               | 30   | 10                | 0    | 100.0          | 0.0   | 0                       | 2087               | 15                     | 19                   | 139                       | 36                     | 7                      |
| BROUGHTON     |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3275               | 5                      | 18                   | 100                       | 37                     | 6                      |
| TOTALS & AVE  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3275               | 5                      | 18                   | 100                       | 37                     | 6                      |
| BROUGHTON S   |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3215               | 4                      | 14                   | 200                       | 38                     | 5                      |
| TOTALS & AVE  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3215               | 4                      | 14                   | 200                       | 38                     | 5                      |
| BROWN         |              | 100            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS       |              | 100            | 50                  | 0                | 0    | 50                | 0    | 80.0           | 0.0   | 0                       | 1670               | 10                     | 18                   | 100                       | 36                     | 7                      |
| TOTALS & AVE  |              | 100            | 50                  | 0                | 0    | 50                | 0    | 80.0           | 0.0   | 0                       | 1670               | 10                     | 18                   | 100                       | 36                     | 7                      |
| BROWNS        |              | 1060           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 1870               | 8                      | 18                   | 100                       | 32                     | 13                     |
| TAR SPRINGS   |              | 40             | 40                  | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 2350               | 14                     | 18                   | 100                       | 36                     | 7                      |
| CYPRESS       |              | 380            | 210                 | 0                | 0    | 160               | 10   | 56.3           | 100.0 | 0                       | 2650               | 13                     | 18                   | 10                        | 36                     | 8                      |
| BETHEL        |              | 80             | 80                  | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 2780               | 12                     | 18                   | 5                         | 39                     | 6                      |
| AUX VASES     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2965               | 7                      | 18                   | 50                        | 36                     | 7                      |
| STE GEN       |              | 770            | 350                 | 0                | 0    | 290               | 130  | 9.5            | 53.8  | 0                       | 2700               | 5                      | 17                   | 150                       | 36                     | 7                      |
| TOTALS & AVE  |              | 1290           | 680                 | 0                | 0    | 470               | 140  | 27.2           | 57.1  | 0                       | 2660               | 8                      | 18                   | 67                        | 36                     | 7                      |
| BROWNS E      |              | 780            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1850               | 8                      | 18                   | 100                       | 32                     | 13                     |
| CYPRESS       |              | 770            | 170                 | 450              | 0    | 150               | 0    | 83.3           | 0.0   | 0                       | 2570               | 13                     | 18                   | 30                        | 36                     | 8                      |
| TOTALS & AVE  |              | 780            | 170                 | 450              | 0    | 160               | 0    | 78.1           | 0.0   | 0                       | 2564               | 13                     | 18                   | 31                        | 36                     | 8                      |
| BROWNS S      |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BETHEL        |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 2850               | 15                     | 18                   | 25                        | 38                     | 5                      |
| AUX VASES     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 33.3           | 0.0   | 0                       | 2950               | 8                      | 18                   | 50                        | 36                     | 7                      |
| TOTALS & AVE  |              | 50             | 0                   | 0                | 0    | 50                | 0    | 40.0           | 0.0   | 0                       | 2894               | 11                     | 18                   | 36                        | 37                     | 6                      |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name      |              | Areal<br>acrea | Waterflood<br>acres |                  |      | Remaining primary |       |                |   | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|-----------------|--------------|----------------|---------------------|------------------|------|-------------------|-------|----------------|---|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                 |              |                |                     |                  |      | Acres             |       | % Active       |   |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name        | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge  | Inter-<br>rior |   |                         |                    |                        |                      |                           |                        |                        |
| BUCKHORN        | 10           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN        | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0 | 680                     | 2                  | 15                     | 50                   | 37                        | 7                      |                        |
| TOTALS & AVE    | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0 | 680                     | 2                  | 15                     | 50                   | 37                        | 7                      |                        |
| RUCKNER         | 40           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 40           | 0              | 0                   | 0                | 40   | 0                 | 100.0 | 0.0            | 0 | 2600                    | 12                 | 18                     | 80                   | 38                        | 5                      |                        |
| TOTALS & AVE    | 40           | 0              | 0                   | 0                | 40   | 0                 | 100.0 | 0.0            | 0 | 2600                    | 12                 | 18                     | 80                   | 38                        | 5                      |                        |
| BULLPIT S       | 60           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| DEV-SIL         | 60           | 0              | 0                   | 0                | 60   | 0                 | 25.0  | 0.0            | 0 | 1910                    | 15                 | 12                     | 40                   | 38                        | 6                      |                        |
| TOTALS & AVE    | 60           | 0              | 0                   | 0                | 60   | 0                 | 25.0  | 0.0            | 0 | 1910                    | 15                 | 12                     | 40                   | 38                        | 6                      |                        |
| RUNGAY C        | 3250         |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| RENAULT         | 550          | 340            | 0                   | 60               | 150  | 0                 | 54.5  | 0.0            | 1 | 3280                    | 5                  | 18                     | 325                  | 39                        | 5                      |                        |
| AUX VASES       | 2730         | 960            | 450                 | 0                | 1130 | 190               | 62.9  | 52.6           | 4 | 3300                    | 17                 | 20                     | 180                  | 39                        | 5                      |                        |
| STE GEN         | 320          | 0              | 0                   | 160              | 160  | 0                 | 33.3  | 0.0            | 0 | 3335                    | 9                  | 18                     | 300                  | 36                        | 6                      |                        |
| ULLIN           | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0 | 4190                    | 10                 | 13                     | 20                   | 38                        | 5                      |                        |
| TOTALS & AVE    | 3610         | 1300           | 450                 | 220              | 1450 | 190               | 59.0  | 52.6           | 5 | 3303                    | 14                 | 20                     | 194                  | 39                        | 5                      |                        |
| BURNT PRAIRIE S | 30           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0 | 3330                    | 24                 | 18                     | 100                  | 37                        | 6                      |                        |
| STE GEN         | 30           | 0              | 0                   | 0                | 30   | 0                 | 33.3  | 0.0            | 0 | 3400                    | 10                 | 15                     | 40                   | 38                        | 5                      |                        |
| TOTALS & AVE    | 40           | 0              | 0                   | 0                | 40   | 0                 | 25.0  | 0.0            | 0 | 3369                    | 14                 | 16                     | 67                   | 38                        | 5                      |                        |
| CALHOUN CFNTRAL | 30           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| STE GEN         | 30           | 0              | 0                   | 0                | 30   | 0                 | 0.0   | 0.0            | 0 | 3245                    | 9                  | 17                     | 150                  | 37                        | 6                      |                        |
| TOTALS & AVE    | 30           | 0              | 0                   | 0                | 30   | 0                 | 0.0   | 0.0            | 0 | 3245                    | 9                  | 17                     | 150                  | 37                        | 6                      |                        |
| CALHOUN C       | 1910         |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| STE GEN         | 1910         | 0              | 930                 | 0                | 730  | 250               | 63.7  | 33.3           | 1 | 3140                    | 12                 | 15                     | 67                   | 38                        | 5                      |                        |
| ST LOUIS        | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0 | 3370                    | 8                  | 10                     | 20                   | 39                        | 5                      |                        |
| SALEM           | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0 | 3330                    | 10                 | 12                     | 30                   | 39                        | 5                      |                        |
| TOTALS & AVE    | 1930         | 0              | 930                 | 0                | 750  | 250               | 64.7  | 33.3           | 1 | 3142                    | 12                 | 15                     | 67                   | 38                        | 5                      |                        |
| CALHOUN E       | 90           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY       | 90           | 70             | 0                   | 0                | 20   | 0                 | 0.0   | 0.0            | 0 | 3265                    | 5                  | 16                     | 100                  | 39                        | 5                      |                        |
| TOTALS & AVE    | 90           | 70             | 0                   | 0                | 20   | 0                 | 0.0   | 0.0            | 0 | 3265                    | 5                  | 16                     | 100                  | 39                        | 5                      |                        |
| CALHOUN N       | 60           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| STE GEN         | 60           | 0              | 0                   | 0                | 60   | 0                 | 50.0  | 0.0            | 0 | 3150                    | 15                 | 16                     | 100                  | 37                        | 6                      |                        |
| TOTALS & AVE    | 60           | 0              | 0                   | 0                | 60   | 0                 | 50.0  | 0.0            | 0 | 3150                    | 15                 | 16                     | 100                  | 37                        | 6                      |                        |
| CALHOUN S       | 490          |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 20           | 0              | 0                   | 0                | 20   | 0                 | 50.0  | 0.0            | 0 | 3175                    | 5                  | 18                     | 100                  | 38                        | 6                      |                        |
| STE GEN         | 470          | 20             | 0                   | 0                | 390  | 60                | 90.0  | 100.0          | 0 | 3200                    | 7                  | 16                     | 100                  | 37                        | 6                      |                        |
| TOTALS & AVE    | 490          | 20             | 0                   | 0                | 410  | 60                | 88.0  | 100.0          | 0 | 3199                    | 7                  | 16                     | 100                  | 37                        | 6                      |                        |
| CARLINVILLE     | 40           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 40           | 0              | 0                   | 0                | 40   | 0                 | 75.0  | 0.0            | 0 | 380                     | 15                 | 18                     | 100                  | 28                        | 37                     |                        |
| TOTALS & AVE    | 40           | 0              | 0                   | 0                | 40   | 0                 | 75.0  | 0.0            | 0 | 380                     | 15                 | 18                     | 100                  | 28                        | 37                     |                        |
| CARLINVILLE N   | 100          |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 100          | 0              | 0                   | 0                | 100  | 0                 | 0.0   | 0.0            | 0 | 440                     | 10                 | 18                     | 100                  | 20                        | 99                     |                        |
| TOTALS & AVE    | 100          | 0              | 0                   | 0                | 100  | 0                 | 0.0   | 0.0            | 0 | 440                     | 10                 | 18                     | 100                  | 20                        | 99                     |                        |
| CARLINVILLE S   | 10           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0 | 539                     | 11                 | 20                     | 100                  | 26                        | 56                     |                        |
| TOTALS & AVE    | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0 | 539                     | 11                 | 20                     | 100                  | 26                        | 56                     |                        |
| CARLYLE         | 1220         |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| GOLCONDA        | 100          | 0              | 0                   | 90               | 10   | 0                 | 0.0   | 0.0            | 0 | 900                     | 10                 | 14                     | 50                   | 35                        | 8                      |                        |
| CYPRESS         | 1220         | 80             | 1100                | 0                | 40   | 0                 | 0.0   | 0.0            | 0 | 1035                    | 20                 | 20                     | 200                  | 35                        | 8                      |                        |
| TOTALS & AVE    | 1320         | 80             | 1100                | 90               | 50   | 0                 | 0.0   | 0.0            | 0 | 1030                    | 19                 | 20                     | 194                  | 35                        | 8                      |                        |
| CARLYLE E       | 10           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| RENOIST         | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0 | 1200                    | 4                  | 14                     | 70                   | 34                        | 11                     |                        |
| TOTALS & AVE    | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0 | 1200                    | 4                  | 14                     | 70                   | 34                        | 11                     |                        |
| CARLYLE N       | 530          |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| RENOIST         | 530          | 50             | 0                   | 0                | 320  | 160               | 85.2  | 92.9           | 2 | 1150                    | 8                  | 17                     | 50                   | 34                        | 11                     |                        |
| TOTALS & AVE    | 530          | 50             | 0                   | 0                | 320  | 160               | 85.2  | 92.9           | 2 | 1150                    | 8                  | 17                     | 50                   | 34                        | 11                     |                        |
| CARLYLE S       | 20           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS         | 20           | 0              | 0                   | 0                | 20   | 0                 | 0.0   | 0.0            | 0 | 1075                    | 4                  | 15                     | 100                  | 35                        | 8                      |                        |
| TOTALS & AVE    | 20           | 0              | 0                   | 0                | 20   | 0                 | 0.0   | 0.0            | 0 | 1075                    | 4                  | 15                     | 100                  | 35                        | 8                      |                        |
| CARM I          | 240          |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0 | 1210                    | 10                 | 18                     | 100                  | 32                        | 15                     |                        |
| CYPRESS         | 90           | 0              | 0                   | 20               | 70   | 0                 | 0.0   | 0.0            | 0 | 2800                    | 15                 | 18                     | 75                   | 38                        | 6                      |                        |
| AUX VASES       | 40           | 0              | 0                   | 0                | 40   | 0                 | 25.0  | 0.0            | 0 | 3150                    | 8                  | 17                     | 50                   | 37                        | 7                      |                        |
| MCCLOSKEY       | 100          | 80             | 0                   | 0                | 20   | 0                 | 50.0  | 0.0            | 0 | 3130                    | 12                 | 17                     | 50                   | 35                        | 8                      |                        |
| TOTALS & AVE    | 240          | 80             | 0                   | 20               | 140  | 0                 | 21.4  | 0.0            | 0 | 2918                    | 12                 | 17                     | 63                   | 36                        | 7                      |                        |
| CARM I N        | 80           |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS         | 20           | 0              | 0                   | 0                | 20   | 0                 | 50.0  | 0.0            | 0 | 2940                    | 15                 | 18                     | 100                  | 38                        | 6                      |                        |
| SAMPLE          | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 1 | 3080                    | 12                 | 15                     | 18                   | 37                        | 6                      |                        |
| AUX VASES       | 60           | 0              | 0                   | 0                | 60   | 0                 | 75.0  | 0.0            | 0 | 3150                    | 10                 | 17                     | 50                   | 36                        | 7                      |                        |
| TOTALS & AVE    | 90           | 0              | 0                   | 0                | 90   | 0                 | 72.2  | 0.0            | 1 | 3080                    | 11                 | 17                     | 61                   | 37                        | 7                      |                        |
| CASEY           | 3030         |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 2720         | 210            | 480                 | 80               | 1550 | 400               | 0.0   | 0.0            | 0 | 400                     | 10                 | 18                     | 175                  | 32                        | 16                     |                        |
| CARPER          | 250          | 100            | 0                   | 0                | 140  | 10                | 62.5  | 100.0          | 1 | 1300                    | 50                 | 16                     | 5                    | 38                        | 5                      |                        |
| TOTALS & AVE    | 2970         | 310            | 480                 | 80               | 1690 | 410               | 5.2   | 2.4            | 1 | 1683                    | 13                 | 17                     | 121                  | 34                        | 13                     |                        |
| CENTERVILLE     | 190          |                |                     |                  |      |                   |       |                |   |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0 | 3080                    | 15                 | 20                     | 150                  | 37                        | 6                      |                        |
| STE GEN         | 190          | 30             | 40                  | 0                | 120  | 0                 | 11.1  | 0.0            | 0 | 3300                    | 16                 | 15                     | 100                  | 37                        | 5                      |                        |
| TOTALS & AVE    | 200          | 30             | 40                  | 0                | 130  | 0                 | 10.3  | 0.0            | 0 | 3290                    | 16                 | 15                     | 102                  | 37                        | 5                      |                        |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name      |           | Areal acres | Waterflood acres |              |      | Remaining primary |       |           |       | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|-----------------|-----------|-------------|------------------|--------------|------|-------------------|-------|-----------|-------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                 |           |             |                  |              |      | Acres             |       | % Active  |       |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name        | Pay acres | Act-tive    | Aban-doned       | Unde-veloped | Edge | Inter-ior         | Edge  | Inter-ior |       |                   |                    |                 |               |                    |                 |                 |
| CENTERVILLE E   |           | 1260        |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| PALESTINF       |           | 20          | 0                | 0            | 0    | 20                | 0     | 100.0     | 0.0   | 0                 | 2225               | 3               | 17            | 80                 | 35              | 8               |
| TAR SPRINGS     |           | 820         | 700              | 80           | 0    | 40                | 0     | 75.0      | 0.0   | 0                 | 2500               | 17              | 16            | 35                 | 38              | 5               |
| HAROINSBURG     |           | 40          | 40               | 0            | 0    | 0                 | 0     | 0.0       | 0.0   | 0                 | 2620               | 20              | 18            | 250                | 36              | 6               |
| CYPRESS         |           | 630         | 520              | 0            | 0    | 110               | 0     | 33.3      | 0.0   | 0                 | 2850               | 17              | 18            | 100                | 37              | 6               |
| BETHEL          |           | 220         | 180              | 0            | 0    | 40                | 0     | 75.0      | 0.0   | 0                 | 2990               | 20              | 14            | 18                 | 38              | 5               |
| AUX VASES       |           | 530         | 530              | 0            | 0    | 0                 | 0     | 0.0       | 0.0   | 0                 | 3100               | 15              | 20            | 150                | 37              | 6               |
| STE GFN         |           | 320         | 180              | 0            | 80   | 60                | 0     | 50.0      | 0.0   | 0                 | 3175               | 12              | 15            | 100                | 38              | 5               |
| TOTALS & AVE    |           | 2580        | 2150             | 80           | 80   | 270               | 0     | 54.3      | 0.0   | 0                 | 2820               | 16              | 17            | 82                 | 38              | 5               |
| CENTERVILLE N   |           | 10          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| BETHEL          |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 2990               | 13              | 14            | 18                 | 38              | 5               |
| TOTALS & AVE    |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 2990               | 13              | 14            | 18                 | 38              | 5               |
| CENTERVILLE NE  |           | 10          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| BETHEL          |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 3050               | 14              | 15            | 20                 | 38              | 5               |
| TOTALS & AVE    |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 3050               | 14              | 15            | 20                 | 38              | 5               |
| CENTRAL CITY    |           | 90          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN     |           | 90          | 70               | 0            | 0    | 20                | 0     | 100.0     | 0.0   | 0                 | 825                | 10              | 20            | 100                | 33              | 13              |
| TOTALS & AVE    |           | 90          | 70               | 0            | 0    | 20                | 0     | 100.0     | 0.0   | 0                 | 825                | 10              | 20            | 100                | 33              | 13              |
| CENTRALIA       |           | 2980        |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN     |           | 30          | 0                | 0            | 0    | 30                | 0     | 33.3      | 0.0   | 0                 | 765                | 10              | 20            | 100                | 32              | 14              |
| CYPRESS         |           | 1530        | 1330             | 0            | 0    | 200               | 0     | 100.0     | 0.0   | 4                 | 1200               | 19              | 20            | 150                | 35              | 8               |
| RENOIST         |           | 2510        | 1640             | 0            | 0    | 440               | 430   | 93.2      | 100.0 | 0                 | 1350               | 19              | 20            | 180                | 38              | 5               |
| DEVONIAN        |           | 2610        | 270              | 0            | 1490 | 450               | 400   | 95.5      | 100.0 | 0                 | 2850               | 9               | 14            | 100                | 40              | 3               |
| TRENTON         |           | 1100        | 1080             | 0            | 0    | 20                | 0     | 100.0     | 0.0   | 0                 | 3930               | 22              | 10            | 20                 | 40              | 5               |
| TOTALS & AVF    |           | 7780        | 4320             | 0            | 1490 | 1140              | 830   | 93.8      | 100.0 | 4                 | 2097               | 16              | 17            | 127                | 38              | 5               |
| CENTRALIA W     |           | 90          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 1300               | 8               | 18            | 100                | 35              | 8               |
| RENOIST         |           | 90          | 0                | 0            | 0    | 80                | 10    | 0.0       | 100.0 | 0                 | 1440               | 9               | 19            | 200                | 38              | 5               |
| TOTALS & AVE    |           | 100         | 0                | 0            | 0    | 90                | 10    | 0.0       | 100.0 | 0                 | 1427               | 9               | 19            | 191                | 38              | 5               |
| CHESTERVILLE    |           | 50          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| SPAR MTN        |           | 50          | 0                | 0            | 0    | 50                | 0     | 20.0      | 0.0   | 0                 | 1780               | 8               | 17            | 200                | 39              | 5               |
| TOTALS & AVE    |           | 50          | 0                | 0            | 0    | 50                | 0     | 20.0      | 0.0   | 0                 | 1780               | 8               | 17            | 200                | 39              | 5               |
| CHESTERVILLE E  |           | 400         |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| SPAR MTN        |           | 400         | 360              | 0            | 0    | 40                | 0     | 50.0      | 0.0   | 0                 | 1720               | 10              | 17            | 200                | 39              | 5               |
| TOTALS & AVE    |           | 400         | 360              | 0            | 0    | 40                | 0     | 50.0      | 0.0   | 0                 | 1720               | 10              | 17            | 200                | 39              | 5               |
| CHRISTOPHER S   |           | 30          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |           | 30          | 0                | 0            | 0    | 30                | 0     | 66.7      | 0.0   | 0                 | 2620               | 8               | 18            | 50                 | 38              | 5               |
| OHARA           |           | 30          | 0                | 0            | 0    | 30                | 0     | 66.7      | 0.0   | 0                 | 2690               | 10              | 16            | 100                | 37              | 6               |
| TOTALS & AVE    |           | 60          | 0                | 0            | 0    | 60                | 0     | 66.7      | 0.0   | 0                 | 2659               | 9               | 17            | 78                 | 37              | 6               |
| CLARKSBURG      |           | 40          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |           | 40          | 0                | 0            | 0    | 40                | 0     | 75.0      | 0.0   | 0                 | 1770               | 6               | 17            | 50                 | 36              | 7               |
| TOTALS & AVE    |           | 40          | 0                | 0            | 0    | 40                | 0     | 75.0      | 0.0   | 0                 | 1770               | 6               | 17            | 50                 | 36              | 7               |
| CLAY CITY C     |           | 86790       |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| WALTERSBURG     |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 2150               | 6               | 17            | 80                 | 36              | 7               |
| TAR SPRINGS     |           | 130         | 0                | 0            | 0    | 130               | 0     | 15.4      | 0.0   | 10                | 2550               | 15              | 18            | 100                | 38              | 6               |
| CYPRESS         |           | 7690        | 3740             | 0            | 1540 | 2350              | 60    | 68.6      | 89.5  | 50                | 2492               | 15              | 18            | 60                 | 34              | 10              |
| BETHFL          |           | 130         | 0                | 0            | 10   | 120               | 0     | 81.8      | 0.0   | 11                | 2808               | 11              | 15            | 30                 | 37              | 7               |
| AUX VASES       |           | 27690       | 12850            | 1390         | 540  | 11000             | 1910  | 63.4      | 63.2  | 20                | 3005               | 15              | 19            | 81                 | 38              | 6               |
| STE GEN         |           | 60450       | 19380            | 1220         | 4270 | 21690             | 13890 | 50.9      | 54.7  | 154               | 2950               | 12              | 16            | 165                | 38              | 5               |
| ST LOUIS        |           | 1950        | 0                | 0            | 330  | 950               | 670   | 76.9      | 95.2  | 0                 | 3583               | 15              | 12            | 30                 | 38              | 5               |
| SALEM           |           | 2270        | 0                | 0            | 120  | 1440              | 810   | 88.5      | 96.2  | 0                 | 2960               | 18              | 11            | 3                  | 39              | 4               |
| WARSAW          |           | 30          | 0                | 0            | 30   | 0                 | 0     | 0.0       | 0.0   | 0                 | 3665               | 13              | 13            | 30                 | 40              | 6               |
| DEVONIAN        |           | 20          | 0                | 0            | 10   | 10                | 0     | 0.0       | 0.0   | 0                 | 4654               | 10              | 11            | 18                 | 39              | 5               |
| TOTALS & AVE    |           | *****       | 35970            | 2610         | 6850 | 37700             | 17340 | 57.7      | 59.3  | 245               | 2941               | 13              | 17            | 121                | 38              | 6               |
| CLIFFORD        |           | 40          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |           | 40          | 0                | 0            | 0    | 40                | 0     | 0.0       | 0.0   | 0                 | 2380               | 7               | 18            | 50                 | 38              | 5               |
| STF GEN         |           | 20          | 0                | 0            | 0    | 20                | 0     | 0.0       | 0.0   | 0                 | 2470               | 12              | 15            | 80                 | 38              | 5               |
| TOTALS & AVE    |           | 60          | 0                | 0            | 0    | 60                | 0     | 0.0       | 0.0   | 0                 | 2422               | 9               | 17            | 64                 | 38              | 5               |
| COIL            |           | 310         |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |           | 300         | 60               | 0            | 0    | 230               | 10    | 64.3      | 100.0 | 0                 | 2700               | 10              | 18            | 100                | 39              | 4               |
| MCCLOSKEY       |           | 10          | 0                | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 3065               | 15              | 17            | 100                | 38              | 6               |
| TOTALS & AVE    |           | 310         | 60               | 0            | 0    | 240               | 10    | 61.6      | 100.0 | 0                 | 2717               | 10              | 18            | 100                | 39              | 4               |
| COIL N          |           | 60          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |           | 60          | 0                | 0            | 0    | 60                | 0     | 83.3      | 0.0   | 0                 | 2847               | 10              | 19            | 140                | 39              | 4               |
| TOTALS & AVE    |           | 60          | 0                | 0            | 0    | 60                | 0     | 83.3      | 0.0   | 0                 | 2847               | 10              | 19            | 140                | 39              | 4               |
| COIL W          |           | 420         |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       |           | 180         | 0                | 160          | 0    | 20                | 0     | 100.0     | 0.0   | 0                 | 2700               | 15              | 18            | 100                | 39              | 4               |
| STE GEN         |           | 220         | 0                | 120          | 0    | 100               | 0     | 16.7      | 0.0   | 0                 | 2790               | 18              | 17            | 100                | 38              | 5               |
| ST LOUIS        |           | 130         | 0                | 0            | 0    | 130               | 0     | 100.0     | 0.0   | 0                 | 3040               | 7               | 12            | 50                 | 39              | 4               |
| SALEM           |           | 10          | 0                | 0            | 0    | 10                | 0     | 100.0     | 0.0   | 0                 | 3350               | 10              | 13            | 80                 | 37              | 6               |
| TOTALS & AVE    |           | 540         | 0                | 280          | 0    | 260               | 0     | 67.9      | 0.0   | 0                 | 2795               | 14              | 17            | 94                 | 38              | 5               |
| COLLINSVILLE    |           | 40          |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| SILURIAN        |           | 40          | 0                | 0            | 0    | 40                | 0     | 0.0       | 0.0   | 0                 | 1305               | 20              | 12            | 25                 | 37              | 6               |
| TOTALS & AVE    |           | 40          | 0                | 0            | 0    | 40                | 0     | 0.0       | 0.0   | 0                 | 1305               | 20              | 12            | 25                 | 37              | 6               |
| COLMAR-PLYMOUTH |           | 2520        |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| HOING           |           | 2520        | 0                | 90           | 0    | 1240              | 1190  | 78.4      | 83.2  | 0                 | 440                | 14              | 17            | 700                | 35              | 8               |
| TOTALS & AVE    |           | 2520        | 0                | 90           | 0    | 1240              | 1190  | 78.4      | 83.2  | 0                 | 440                | 14              | 17            | 700                | 35              | 8               |
| CONCORD C       |           | 1840        |                  |              |      |                   |       |           |       |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS     |           | 350         | 300              | 50           | 0    | 0                 | 0     | 0.0       | 0.0   | 0                 | 2270               | 15              | 16            | 175                | 36              | 7               |
| HARDINSBURG     |           | 350         | 340              | 0            | 0    | 10                | 0     | 0.0       | 0.0   | 0                 | 2500               | 10              | 18            | 200                | 36              | 6               |
| CYPRESS         |           | 270         | 180              | 0            | 20   | 70                | 0     | 71.4      | 0.0   | 0                 | 2620               | 12              | 18            | 300                | 37              | 6               |
| AUX VASES       |           | 670         | 290              | 40           | 90   | 250               | 0     | 50.0      | 0.0   | 0                 | 2900               | 21              | 20            | 75                 | 36              | 7               |
| STF GEN         |           | 1080        | 210              | 340          | 280  | 170               | 80    | 27.3      | 62.5  | 0                 | 2950               | 14              | 16            | 100                | 37              | 6               |
| TOTALS & AVE    |           | 2720        | 1320             | 430          | 390  | 500               | 80    | 44.3      | 62.5  | 0                 | 2782               | 15              | 18            | 125                | 36              | 6               |



| Field name     |              | Areal<br>acres | Waterflood<br>acres |                  |      | Remaining primary |      |               |       | No. of<br>SMD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|----------------|--------------|----------------|---------------------|------------------|------|-------------------|------|---------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                |              |                |                     |                  |      | Acres             |      | % Active      |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name       | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>ior     | Edge | Inter-<br>ior |       |                         |                    |                        |                      |                           |                        |                        |
| CONCORD E C    |              | 420            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| WALTERSBURG    |              | 40             | 0                   | 0                | 0    | 40                | 0    | 75.0          | 0.0   | 0                       | 2220               | 10                     | 20                   | 200                       | 33                     | 8                      |
| TAR SPRINGS    |              | 70             | 0                   | 0                | 0    | 70                | 0    | 83.3          | 0.0   | 0                       | 2250               | 18                     | 16                   | 175                       | 36                     | 6                      |
| CYPRESS        |              | 190            | 0                   | 0                | 0    | 190               | 0    | 64.7          | 0.0   | 0                       | 2578               | 11                     | 17                   | 100                       | 38                     | 5                      |
| RENAULT        |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0         | 0.0   | 0                       | 2800               | 6                      | 16                   | 60                        | 36                     | 7                      |
| AUX VASES      |              | 70             | 0                   | 0                | 0    | 70                | 0    | 50.0          | 0.0   | 1                       | 2836               | 12                     | 18                   | 93                        | 36                     | 7                      |
| STF GEN        |              | 120            | 0                   | 0                | 0    | 120               | 0    | 66.7          | 0.0   | 0                       | 2954               | 10                     | 16                   | 48                        | 38                     | 5                      |
| TOTALS & AVE   |              | 510            | 0                   | 0                | 0    | 510               | 0    | 67.9          | 0.0   | 1                       | 2601               | 12                     | 17                   | 110                       | 37                     | 6                      |
| COOKS MILLS C  |              | 3060           |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 1600               | 20                     | 18                   | 75                        | 39                     | 5                      |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 1770               | 15                     | 17                   | 50                        | 37                     | 6                      |
| STF GEN        |              | 3020           | 1460                | 0                | 0    | 1180              | 380  | 53.2          | 71.4  | 5                       | 1800               | 11                     | 17                   | 180                       | 37                     | 6                      |
| CARPER         |              | 20             | 0                   | 0                | 10   | 10                | 0    | 0.0           | 0.0   | 0                       | 2700               | 5                      | 12                   | 30                        | 38                     | 5                      |
| DEVONIAN       |              | 20             | 0                   | 0                | 10   | 10                | 0    | 0.0           | 0.0   | 0                       | 2870               | 3                      | 12                   | 20                        | 37                     | 7                      |
| TOTALS & AVE   |              | 3080           | 1460                | 0                | 20   | 1220              | 380  | 51.4          | 71.4  | 5                       | 1803               | 11                     | 17                   | 178                       | 37                     | 6                      |
| COROES         |              | 1630           |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| RENOIST        |              | 1630           | 1200                | 0                | 0    | 320               | 110  | 70.6          | 100.0 | 2                       | 1230               | 14                     | 20                   | 250                       | 36                     | 7                      |
| TOTALS & AVE   |              | 1630           | 1200                | 0                | 0    | 320               | 110  | 70.6          | 100.0 | 2                       | 1230               | 14                     | 20                   | 250                       | 36                     | 7                      |
| CORINTH        |              | 190            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 180            | 0                   | 0                | 0    | 150               | 30   | 90.9          | 100.0 | 0                       | 2885               | 18                     | 18                   | 100                       | 38                     | 5                      |
| STE GEN        |              | 40             | 0                   | 0                | 0    | 40                | 0    | 100.0         | 0.0   | 0                       | 2930               | 15                     | 14                   | 30                        | 38                     | 5                      |
| TOTALS & AVE   |              | 220            | 0                   | 0                | 0    | 190               | 30   | 92.8          | 100.0 | 0                       | 2892               | 17                     | 17                   | 89                        | 38                     | 5                      |
| CORINTH E      |              | 10             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 3030               | 10                     | 14                   | 30                        | 38                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 3030               | 10                     | 14                   | 30                        | 38                     | 5                      |
| CORINTH N      |              | 10             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2930               | 16                     | 18                   | 100                       | 36                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2930               | 16                     | 18                   | 100                       | 36                     | 5                      |
| COTTAGE GROVE  |              | 10             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| OHARA          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2970               | 7                      | 15                   | 150                       | 38                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2970               | 7                      | 15                   | 150                       | 38                     | 5                      |
| COULTERVILLE N |              | 40             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN       |              | 40             | 0                   | 0                | 0    | 40                | 0    | 50.0          | 0.0   | 0                       | 2290               | 25                     | 12                   | 20                        | 42                     | 3                      |
| TOTALS & AVE   |              | 40             | 0                   | 0                | 0    | 40                | 0    | 50.0          | 0.0   | 0                       | 2290               | 25                     | 12                   | 20                        | 42                     | 3                      |
| COVINGTON S    |              | 510            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 420            | 0                   | 80               | 0    | 300               | 40   | 40.0          | 50.0  | 0                       | 3310               | 5                      | 17                   | 100                       | 36                     | 7                      |
| ST LOUIS       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 3375               | 4                      | 12                   | 20                        | 36                     | 8                      |
| ULLIN          |              | 80             | 0                   | 0                | 0    | 80                | 0    | 80.0          | 0.0   | 0                       | 4150               | 12                     | 12                   | 25                        | 36                     | 9                      |
| TOTALS & AVE   |              | 510            | 0                   | 80               | 0    | 390               | 40   | 47.2          | 50.0  | 0                       | 3571               | 6                      | 15                   | 76                        | 36                     | 8                      |
| CRAIG          |              | 10             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| TRENTON        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 3650               | 20                     | 11                   | 20                        | 35                     | 11                     |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 3650               | 20                     | 11                   | 20                        | 35                     | 11                     |
| CRAVAT         |              | 120            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| RENOIST        |              | 120            | 0                   | 0                | 0    | 90                | 30   | 44.4          | 66.7  | 0                       | 2070               | 10                     | 18                   | 100                       | 34                     | 8                      |
| TOTALS & AVE   |              | 120            | 0                   | 0                | 0    | 90                | 30   | 44.4          | 66.7  | 0                       | 2070               | 10                     | 18                   | 100                       | 34                     | 8                      |
| CRAVAT W       |              | 140            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN    |              | 130            | 70                  | 0                | 0    | 60                | 0    | 100.0         | 0.0   | 0                       | 920                | 15                     | 20                   | 100                       | 32                     | 15                     |
| BETHEL         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2075               | 12                     | 18                   | 100                       | 34                     | 8                      |
| TOTALS & AVE   |              | 140            | 70                  | 0                | 0    | 70                | 0    | 85.7          | 0.0   | 0                       | 987                | 15                     | 20                   | 100                       | 32                     | 15                     |
| CROSSVILLE     |              | 110            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| BETHEL         |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0           | 0.0   | 0                       | 2880               | 9                      | 15                   | 25                        | 38                     | 5                      |
| AUX VASES      |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0           | 0.0   | 0                       | 3030               | 20                     | 18                   | 100                       | 37                     | 7                      |
| STE GEN        |              | 80             | 0                   | 0                | 0    | 80                | 0    | 0.0           | 0.0   | 0                       | 3100               | 4                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 150            | 0                   | 0                | 0    | 150               | 0    | 0.0           | 0.0   | 0                       | 3005               | 9                      | 17                   | 79                        | 38                     | 6                      |
| CROSSVILLE W   |              | 210            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 130            | 90                  | 0                | 0    | 40                | 0    | 50.0          | 0.0   | 0                       | 3030               | 8                      | 18                   | 100                       | 37                     | 7                      |
| STE GEN        |              | 120            | 80                  | 0                | 0    | 40                | 0    | 0.0           | 0.0   | 0                       | 3100               | 6                      | 16                   | 100                       | 37                     | 6                      |
| TOTALS & AVE   |              | 250            | 170                 | 0                | 0    | 80                | 0    | 25.0          | 0.0   | 0                       | 3059               | 7                      | 17                   | 100                       | 37                     | 7                      |
| OAHLGREN       |              | 610            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 610            | 0                   | 0                | 0    | 330               | 280  | 10.0          | 0.0   | 0                       | 3300               | 11                     | 17                   | 100                       | 37                     | 6                      |
| ULLIN          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 4110               | 15                     | 14                   | 70                        | 39                     | 4                      |
| TOTALS & AVE   |              | 620            | 0                   | 0                | 0    | 340               | 280  | 9.7           | 0.0   | 0                       | 3318               | 11                     | 17                   | 99                        | 37                     | 6                      |
| OAHLGREN W     |              | 20             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| ULLIN          |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0          | 0.0   | 1                       | 4110               | 15                     | 12                   | 20                        | 38                     | 5                      |
| TOTALS & AVE   |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0          | 0.0   | 1                       | 4110               | 15                     | 12                   | 20                        | 38                     | 5                      |
| DALE C         |              | 18070          |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| TAR SPRINGS    |              | 480            | 430                 | 0                | 10   | 40                | 0    | 0.0           | 0.0   | 0                       | 2400               | 19                     | 18                   | 50                        | 36                     | 7                      |
| HAROLDSBURG    |              | 120            | 100                 | 0                | 0    | 20                | 0    | 100.0         | 0.0   | 0                       | 2480               | 10                     | 19                   | 250                       | 38                     | 6                      |
| CYPRESS        |              | 1500           | 1090                | 0                | 180  | 230               | 0    | 60.9          | 0.0   | 1                       | 2519               | 16                     | 18                   | 150                       | 39                     | 5                      |
| BETHEL         |              | 3400           | 2540                | 130              | 90   | 390               | 250  | 58.3          | 40.0  | 1                       | 2975               | 18                     | 17                   | 49                        | 38                     | 5                      |
| AUX VASES      |              | 16170          | 9770                | 1410             | 10   | 4120              | 860  | 56.8          | 91.5  | 9                       | 3165               | 20                     | 18                   | 108                       | 37                     | 7                      |
| STF GEN        |              | 3720           | 1290                | 370              | 610  | 1170              | 210  | 69.9          | 92.9  | 0                       | 3232               | 14                     | 16                   | 103                       | 37                     | 6                      |
| ST LOUIS       |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0         | 0.0   | 0                       | 3163               | 10                     | 8                    | 30                        | 39                     | 4                      |
| TOTALS & AVE   |              | 25410          | 15220               | 1910             | 900  | 5990              | 1320 | 59.6          | 81.9  | 11                      | 3098               | 19                     | 18                   | 101                       | 37                     | 7                      |
| DECATUR        |              | 110            |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN       |              | 110            | 0                   | 0                | 0    | 110               | 0    | 0.0           | 0.0   | 0                       | 2000               | 7                      | 12                   | 30                        | 37                     | 7                      |
| TOTALS & AVE   |              | 110            | 0                   | 0                | 0    | 110               | 0    | 0.0           | 0.0   | 0                       | 2000               | 7                      | 12                   | 30                        | 37                     | 7                      |
| DECATUR N      |              | 10             |                     |                  |      |                   |      |               |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2200               | 10                     | 13                   | 30                        | 38                     | 6                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0           | 0.0   | 0                       | 2200               | 10                     | 13                   | 30                        | 38                     | 6                      |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name      |              | Areal<br>acres | Waterflood<br>acres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|-----------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                 |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poroa-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name        | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| DEERING CITY    |              | 110            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       |              | 80             | 70                  | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2800               | 15                     | 18                   | 80                        | 38                     | 5                      |
| MCCLOSKEY       |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 2910               | 4                      | 17                   | 100                       | 34                     | 10                     |
| TOTALS & AVE    |              | 110            | 70                  | 0                | 0    | 40                | 0    | 100.0          | 0.0   | 0                       | 2810               | 12                     | 18                   | 82                        | 38                     | 5                      |
| DIVIOE C        |              | 3540           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       |              | 170            | 0                   | 0                | 0    | 160               | 10   | 72.7           | 100.0 | 0                       | 2620               | 10                     | 18                   | 100                       | 38                     | 5                      |
| STE GEN         |              | 2520           | 1060                | 130              | 0    | 1120              | 210  | 57.7           | 83.3  | 0                       | 2700               | 11                     | 14                   | 200                       | 38                     | 5                      |
| ST LOUIS        |              | 190            | 0                   | 0                | 0    | 190               | 0    | 73.3           | 0.0   | 0                       | 2840               | 7                      | 13                   | 70                        | 37                     | 5                      |
| SALEM           |              | 970            | 0                   | 0                | 80   | 720               | 170  | 94.0           | 80.0  | 0                       | 3190               | 10                     | 14                   | 60                        | 37                     | 6                      |
| TOTALS & AVE    |              | 3850           | 1060                | 130              | 80   | 2190              | 390  | 72.1           | 82.3  | 0                       | 2819               | 11                     | 14                   | 158                       | 38                     | 5                      |
| DIVIOE S        |              | 300            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY       |              | 300            | 0                   | 0                | 0    | 270               | 30   | 20.0           | 33.3  | 0                       | 2880               | 5                      | 14                   | 100                       | 37                     | 6                      |
| TOTALS & AVE    |              | 300            | 0                   | 0                | 0    | 270               | 30   | 20.0           | 33.3  | 0                       | 2880               | 5                      | 14                   | 100                       | 37                     | 6                      |
| OIX S           |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST         |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1950               | 8                      | 18                   | 100                       | 35                     | 8                      |
| TOTALS & AVE    |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1950               | 8                      | 18                   | 100                       | 35                     | 8                      |
| DOLLVILLE       |              | 90             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BETHEL          |              | 90             | 90                  | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 1509               | 4                      | 18                   | 50                        | 37                     | 6                      |
| TOTALS & AVE    |              | 90             | 90                  | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 1509               | 4                      | 18                   | 50                        | 37                     | 6                      |
| DOUBOIS CENTRAL |              | 130            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST         |              | 110            | 0                   | 0                | 0    | 90                | 20   | 100.0          | 100.0 | 0                       | 1330               | 12                     | 18                   | 100                       | 30                     | 15                     |
| SPAR MTN        |              | 70             | 0                   | 0                | 0    | 70                | 0    | 66.7           | 0.0   | 0                       | 1530               | 8                      | 14                   | 40                        | 35                     | 8                      |
| TOTALS & AVE    |              | 180            | 0                   | 0                | 0    | 160               | 20   | 85.4           | 100.0 | 0                       | 1390               | 10                     | 17                   | 82                        | 31                     | 13                     |
| DOUBOIS C       |              | 1360           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS         |              | 950            | 390                 | 40               | 0    | 490               | 30   | 81.1           | 100.0 | 2                       | 1230               | 10                     | 18                   | 93                        | 37                     | 6                      |
| BENOIST         |              | 460            | 0                   | 0                | 30   | 370               | 60   | 87.1           | 83.3  | 2                       | 1338               | 10                     | 19                   | 150                       | 31                     | 15                     |
| TOTALS & AVE    |              | 1410           | 390                 | 40               | 30   | 860               | 90   | 81.7           | 88.9  | 4                       | 1265               | 10                     | 19                   | 112                       | 35                     | 9                      |
| DOULEY          |              | 650            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     |              | 650            | 0                   | 0                | 0    | 330               | 320  | 80.0           | 90.6  | 0                       | 310                | 40                     | 18                   | 100                       | 24                     | 75                     |
| TOTALS & AVE    |              | 650            | 0                   | 0                | 0    | 330               | 320  | 80.0           | 90.6  | 0                       | 310                | 40                     | 18                   | 100                       | 24                     | 75                     |
| DOULEYVILLE E   |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN        |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 2370               | 5                      | 12                   | 50                        | 37                     | 7                      |
| TOTALS & AVE    |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 2370               | 5                      | 12                   | 50                        | 37                     | 7                      |
| DOUPD           |              | 880            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TRENTON         |              | 880            | 0                   | 0                | 0    | 450               | 430  | 33.3           | 30.2  | 0                       | 700                | 50                     | 12                   | 320                       | 33                     | 15                     |
| TOTALS & AVE    |              | 880            | 0                   | 0                | 0    | 450               | 430  | 33.3           | 30.2  | 0                       | 700                | 50                     | 12                   | 320                       | 33                     | 15                     |
| EBERLE          |              | 150            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS         |              | 60             | 0                   | 0                | 0    | 60                | 0    | 0.0            | 0.0   | 0                       | 2475               | 10                     | 17                   | 50                        | 37                     | 7                      |
| STE GEN         |              | 110            | 0                   | 0                | 0    | 100               | 10   | 0.0            | 0.0   | 1                       | 2795               | 7                      | 17                   | 300                       | 36                     | 7                      |
| TOTALS & AVE    |              | 170            | 0                   | 0                | 0    | 160               | 10   | 0.0            | 0.0   | 1                       | 2655               | 8                      | 17                   | 191                       | 36                     | 7                      |
| EOINBURG        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| LINGLE          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1810               | 2                      | 12                   | 10                        | 38                     | 6                      |
| TOTALS & AVE    |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1810               | 2                      | 12                   | 10                        | 38                     | 6                      |
| EOINBURG S      |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| HIBBARD         |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1800               | 13                     | 12                   | 30                        | 39                     | 5                      |
| TOTALS & AVE    |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1800               | 13                     | 12                   | 30                        | 39                     | 5                      |
| EOINBURG W      |              | 1500           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN        |              | 50             | 0                   | 0                | 20   | 30                | 0    | 66.7           | 0.0   | 0                       | 1660               | 6                      | 12                   | 20                        | 41                     | 4                      |
| SILURIAN        |              | 1470           | 350                 | 0                | 0    | 920               | 200  | 75.3           | 81.8  | 3                       | 1700               | 12                     | 11                   | 10                        | 41                     | 4                      |
| TOTALS & AVE    |              | 1520           | 350                 | 0                | 20   | 950               | 200  | 75.1           | 81.8  | 3                       | 1699               | 12                     | 11                   | 10                        | 41                     | 4                      |
| ELRA            |              | 210            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2620               | 10                     | 18                   | 80                        | 37                     | 6                      |
| BETHEL          |              | 80             | 0                   | 0                | 0    | 70                | 10   | 0.0            | 0.0   | 0                       | 2660               | 10                     | 17                   | 50                        | 36                     | 6                      |
| RENAULT         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2700               | 8                      | 14                   | 60                        | 36                     | 8                      |
| AUX VASES       |              | 120            | 0                   | 0                | 0    | 110               | 10   | 0.0            | 0.0   | 0                       | 2780               | 5                      | 18                   | 75                        | 38                     | 6                      |
| OHARA           |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2820               | 13                     | 14                   | 60                        | 38                     | 5                      |
| TOTALS & AVE    |              | 260            | 0                   | 0                | 0    | 240               | 20   | 0.0            | 0.0   | 0                       | 2734               | 8                      | 16                   | 61                        | 37                     | 6                      |
| ELBRIDGE        |              | 440            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     |              | 10             | 0                   | 0                | 0    | 0                 | 10   | 0.0            | 0.0   | 0                       | 760                | 7                      | 19                   | 100                       | 30                     | 18                     |
| FREONIA         |              | 430            | 0                   | 0                | 0    | 230               | 190  | 0.0            | 95.0  | 3                       | 950                | 3                      | 22                   | 500                       | 35                     | 7                      |
| DEVONIAN        |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1950               | 20                     | 13                   | 20                        | 37                     | 6                      |
| TOTALS & AVE    |              | 460            | 0                   | 0                | 0    | 250               | 200  | 0.0            | 90.3  | 3                       | 1170               | 4                      | 20                   | 375                       | 35                     | 7                      |
| EOLORADO C      |              | 3450           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PALESTINE       |              | 360            | 0                   | 0                | 30   | 310               | 20   | 64.0           | 100.0 | 0                       | 1925               | 18                     | 18                   | 200                       | 36                     | 7                      |
| WALTERSBURG     |              | 1930           | 1480                | 80               | 0    | 320               | 50   | 60.7           | 100.0 | 0                       | 2150               | 15                     | 19                   | 200                       | 38                     | 4                      |
| TAR SPRINGS     |              | 260            | 0                   | 0                | 0    | 250               | 10   | 87.0           | 100.0 | 2                       | 2200               | 15                     | 18                   | 75                        | 37                     | 8                      |
| HARDINSBURG     |              | 290            | 0                   | 0                | 0    | 270               | 20   | 45.5           | 50.0  | 0                       | 2350               | 20                     | 18                   | 100                       | 38                     | 5                      |
| CYPRESS         |              | 270            | 90                  | 0                | 20   | 170               | 10   | 75.0           | 100.0 | 0                       | 2590               | 9                      | 18                   | 70                        | 37                     | 5                      |
| SAMPLE BETH     |              | 70             | 0                   | 0                | 40   | 30                | 0    | 100.0          | 0.0   | 0                       | 2680               | 13                     | 18                   | 50                        | 37                     | 6                      |
| AUX VASES       |              | 890            | 60                  | 0                | 90   | 680               | 60   | 59.0           | 66.7  | 1                       | 2900               | 15                     | 19                   | 80                        | 37                     | 7                      |
| STE GEN         |              | 90             | 0                   | 0                | 0    | 90                | 0    | 33.3           | 0.0   | 0                       | 2900               | 9                      | 15                   | 100                       | 39                     | 5                      |
| TOTALS & AVE    |              | 4160           | 1630                | 80               | 180  | 2120              | 170  | 62.3           | 82.4  | 3                       | 2342               | 15                     | 19                   | 149                       | 37                     | 5                      |
| EOLORADO F      |              | 400            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PALESTINE       |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 1913               | 17                     | 18                   | 200                       | 36                     | 7                      |
| TAR SPRINGS     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 2200               | 10                     | 17                   | 200                       | 35                     | 6                      |
| CYPRESS         |              | 30             | 0                   | 0                | 0    | 30                | 0    | 33.3           | 0.0   | 0                       | 2520               | 20                     | 18                   | 80                        | 37                     | 5                      |
| AUX VASES       |              | 340            | 0                   | 210              | 0    | 90                | 40   | 71.4           | 50.0  | 1                       | 2890               | 7                      | 18                   | 75                        | 38                     | 5                      |
| SPAR MTN        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2975               | 4                      | 15                   | 80                        | 38                     | 5                      |
| TOTALS & AVE    |              | 440            | 0                   | 210              | 0    | 190               | 40   | 39.1           | 50.0  | 1                       | 2649               | 9                      | 18                   | 102                       | 37                     | 5                      |
| EOLORADO W      |              | 50             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PALESTINE       |              | 40             | 0                   | 0                | 0    | 40                | 0    | 33.3           | 0.0   | 0                       | 1940               | 18                     | 18                   | 300                       | 30                     | 18                     |
| RENAULT         |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 2910               | 6                      | 17                   | 100                       | 37                     | 6                      |
| AUX VASES       |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 2960               | 7                      | 19                   | 75                        | 38                     | 5                      |
| TOTALS & AVE    |              | 80             | 0                   | 0                | 0    | 80                | 0    | 41.7           | 0.0   | 0                       | 2204               | 12                     | 18                   | 243                       | 32                     | 15                     |

| Field name     |              | Areal<br>acres | Waterflood<br>acres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|----------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name       | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| ELK PRAIRIE    |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 2735               | 7                      | 15                   | 50                        | 37                     | 6                      |
| SALFM          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3075               | 8                      | 13                   | 100                       | 37                     | 6                      |
| TOTALS & AVE   |              | 30             | 0                   | 0                | 0    | 30                | 0    | 66.7           | 0.0   | 0                       | 2859               | 7                      | 14                   | 68                        | 37                     | 6                      |
| ELKTON         |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BAILEY         |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2350               | 30                     | 12                   | 15                        | 40                     | 4                      |
| TOTALS & AVE   |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2350               | 30                     | 12                   | 15                        | 40                     | 4                      |
| ELKVILLE       |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| RENOIST        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2000               | 10                     | 17                   | 50                        | 36                     | 7                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2000               | 10                     | 17                   | 50                        | 36                     | 7                      |
| ELLERY E       |              | 310            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 180            | 0                   | 170              | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3180               | 10                     | 18                   | 50                        | 36                     | 7                      |
| STE GEN        |              | 190            | 0                   | 170              | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 3250               | 6                      | 17                   | 150                       | 37                     | 5                      |
| TOTALS & AVE   |              | 370            | 0                   | 340              | 0    | 30                | 0    | 33.3           | 0.0   | 0                       | 3207               | 8                      | 18                   | 99                        | 36                     | 6                      |
| ELLERY N       |              | 90             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BETHEL         |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 3100               | 30                     | 18                   | 30                        | 38                     | 6                      |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3100               | 15                     | 18                   | 50                        | 36                     | 7                      |
| STE GEN        |              | 70             | 0                   | 0                | 0    | 70                | 0    | 33.3           | 0.0   | 0                       | 3350               | 15                     | 17                   | 150                       | 37                     | 6                      |
| ST LOUIS       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3520               | 6                      | 12                   | 15                        | 37                     | 6                      |
| TOTALS & AVE   |              | 110            | 0                   | 0                | 0    | 110               | 0    | 48.5           | 0.0   | 0                       | 3255               | 17                     | 17                   | 99                        | 37                     | 6                      |
| ELLERY S       |              | 90             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 3200               | 15                     | 18                   | 60                        | 36                     | 7                      |
| MCCLOSKEY      |              | 60             | 0                   | 0                | 0    | 60                | 0    | 0.0            | 0.0   | 0                       | 3300               | 9                      | 17                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 90             | 0                   | 0                | 0    | 90                | 0    | 0.0            | 0.0   | 0                       | 3255               | 11                     | 17                   | 82                        | 37                     | 6                      |
| ELLIOTTSTOWN   |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2730               | 8                      | 17                   | 100                       | 39                     | 4                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2730               | 8                      | 17                   | 100                       | 39                     | 4                      |
| ELLIOTTSTOWN F |              | 80             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2485               | 5                      | 19                   | 100                       | 35                     | 7                      |
| STE GEN        |              | 70             | 0                   | 0                | 0    | 70                | 0    | 40.0           | 0.0   | 1                       | 2761               | 10                     | 16                   | 121                       | 37                     | 6                      |
| TOTALS & AVE   |              | 80             | 0                   | 0                | 0    | 80                | 0    | 35.0           | 0.0   | 1                       | 2743               | 9                      | 16                   | 120                       | 37                     | 6                      |
| ELLIOTTSTOWN N |              | 240            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 1                       | 2430               | 8                      | 18                   | 80                        | 36                     | 7                      |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2710               | 2                      | 18                   | 50                        | 37                     | 6                      |
| STE GEN        |              | 240            | 100                 | 0                | 0    | 140               | 0    | 100.0          | 0.0   | 1                       | 2727               | 15                     | 17                   | 264                       | 37                     | 6                      |
| TOTALS & AVE   |              | 270            | 100                 | 0                | 0    | 170               | 0    | 88.2           | 0.0   | 2                       | 2714               | 14                     | 17                   | 255                       | 37                     | 6                      |
| ENFIELD        |              | 380            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 220            | 150                 | 0                | 0    | 70                | 0    | 60.0           | 0.0   | 0                       | 3250               | 10                     | 18                   | 100                       | 39                     | 5                      |
| STE GEN        |              | 160            | 70                  | 60               | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 3300               | 12                     | 16                   | 40                        | 38                     | 5                      |
| TOTALS & AVE   |              | 380            | 220                 | 60               | 0    | 100               | 0    | 42.0           | 0.0   | 0                       | 3273               | 11                     | 17                   | 72                        | 39                     | 5                      |
| ENFIELD S      |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3175               | 10                     | 18                   | 100                       | 39                     | 5                      |
| MCCLOSKEY      |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 3275               | 6                      | 16                   | 40                        | 38                     | 5                      |
| TOTALS & AVE   |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 3239               | 7                      | 17                   | 61                        | 38                     | 5                      |
| EVERS          |              | 70             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 70             | 0                   | 0                | 0    | 70                | 0    | 40.0           | 0.0   | 0                       | 2624               | 6                      | 17                   | 229                       | 38                     | 5                      |
| TOTALS & AVE   |              | 70             | 0                   | 0                | 0    | 70                | 0    | 40.0           | 0.0   | 0                       | 2624               | 6                      | 17                   | 229                       | 38                     | 5                      |
| EVERS S        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2650               | 8                      | 16                   | 200                       | 38                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2650               | 8                      | 16                   | 200                       | 38                     | 5                      |
| EWING          |              | 170            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2850               | 10                     | 18                   | 50                        | 38                     | 5                      |
| MCCLOSKEY      |              | 160            | 0                   | 0                | 0    | 110               | 50   | 50.0           | 0.0   | 0                       | 2970               | 7                      | 17                   | 125                       | 36                     | 4                      |
| TOTALS & AVE   |              | 170            | 0                   | 0                | 0    | 120               | 50   | 45.8           | 0.0   | 0                       | 2960               | 7                      | 17                   | 119                       | 36                     | 4                      |
| EWING E        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3010               | 10                     | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3010               | 10                     | 16                   | 100                       | 38                     | 5                      |
| EXCHANGE       |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 2700               | 12                     | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 2700               | 12                     | 16                   | 100                       | 38                     | 5                      |
| EXCHANGE E     |              | 230            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 220            | 150                 | 0                | 0    | 70                | 0    | 66.7           | 0.0   | 1                       | 2775               | 10                     | 17                   | 150                       | 37                     | 6                      |
| ST LOUIS       |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2940               | 8                      | 12                   | 20                        | 38                     | 5                      |
| TOTALS & AVE   |              | 230            | 150                 | 0                | 0    | 80                | 0    | 58.3           | 0.0   | 1                       | 2781               | 10                     | 17                   | 145                       | 37                     | 6                      |
| FXCHANGE N C   |              | 200            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 190            | 0                   | 0                | 0    | 140               | 50   | 76.9           | 100.0 | 1                       | 2715               | 6                      | 17                   | 150                       | 37                     | 6                      |
| SALEM          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3056               | 11                     | 14                   | 60                        | 37                     | 6                      |
| TOTALS & AVE   |              | 200            | 0                   | 0                | 0    | 150               | 50   | 78.5           | 100.0 | 1                       | 2745               | 6                      | 17                   | 142                       | 37                     | 6                      |
| EXCHANGE W     |              | 300            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 240            | 120                 | 0                | 0    | 110               | 10   | 100.0          | 100.0 | 0                       | 2650               | 6                      | 15                   | 60                        | 37                     | 6                      |
| ST LOUIS       |              | 70             | 0                   | 0                | 0    | 70                | 0    | 100.0          | 0.0   | 0                       | 2721               | 8                      | 12                   | 20                        | 38                     | 5                      |
| TOTALS & AVE   |              | 310            | 120                 | 0                | 0    | 180               | 10   | 100.0          | 100.0 | 0                       | 2670               | 6                      | 14                   | 49                        | 37                     | 6                      |
| FAIRMAN        |              | 610            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| RENOIST        |              | 480            | 130                 | 0                | 0    | 290               | 60   | 55.6           | 33.3  | 2                       | 1465               | 8                      | 21                   | 350                       | 38                     | 5                      |
| TRENTON        |              | 230            | 0                   | 0                | 0    | 230               | 0    | 81.3           | 0.0   | 0                       | 3950               | 20                     | 12                   | 20                        | 40                     | 5                      |
| TOTALS & AVE   |              | 710            | 130                 | 0                | 0    | 520               | 60   | 66.9           | 33.3  | 2                       | 2819               | 12                     | 16                   | 170                       | 39                     | 5                      |
| FANCHER        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| RENOIST        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1750               | 3                      | 18                   | 50                        | 34                     | 9                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1750               | 3                      | 18                   | 50                        | 34                     | 9                      |



TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name       |           | Areal acres | Waterflood acres |              |      | Remaining primary |      |           |       | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|------------------|-----------|-------------|------------------|--------------|------|-------------------|------|-----------|-------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                  |           |             |                  |              |      | Acres             |      | % Active  |       |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name         | Pay acres | Act-tive    | Aban-doned       | Unde-veloped | Edge | Inter-ior         | Edge | Inter-ior |       |                   |                    |                 |               |                    |                 |                 |
| FEHRER LAKE      |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2650               | 8               | 16            | 50                 | 36              | 6               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2650               | 8               | 16            | 50                 | 36              | 6               |
| FITZGERRELL      |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BENOIST          |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2760               | 11              | 17            | 50                 | 37              | 6               |
| AUX VASES        |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2800               | 10              | 16            | 50                 | 37              | 6               |
| TOTALS & AVE     |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 2779               | 11              | 17            | 50                 | 37              | 6               |
| FLORA S          |           | 60          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        |           | 60          | 0                | 40           | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 2985               | 6               | 16            | 100                | 39              | 4               |
| TOTALS & AVE     |           | 60          | 0                | 40           | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 2985               | 6               | 16            | 100                | 39              | 4               |
| FORSYTH          |           | 30          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| SILURIAN         |           | 30          | 0                | 0            | 0    | 30                | 0    | 100.0     | 0.0   | 0                 | 2120               | 14              | 12            | 20                 | 38              | 5               |
| TOTALS & AVE     |           | 30          | 0                | 0            | 0    | 30                | 0    | 100.0     | 0.0   | 0                 | 2120               | 14              | 12            | 20                 | 38              | 5               |
| FRANCIS MILLS    |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2675               | 5               | 18            | 80                 | 36              | 7               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2675               | 5               | 18            | 80                 | 36              | 7               |
| FRANCIS MILLS S  |           | 20          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| STF GEN          |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 3010               | 8               | 16            | 150                | 37              | 6               |
| TOTALS & AVE     |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 3010               | 8               | 16            | 150                | 37              | 6               |
| FREEBURG         |           | 20          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 380                | 30              | 18            | 80                 | 30              | 18              |
| TOTALS & AVE     |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 380                | 30              | 18            | 80                 | 30              | 18              |
| FRIENOSVILLE CEN |           | 50          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BETHEL           |           | 50          | 0                | 0            | 0    | 50                | 0    | 0.0       | 0.0   | 0                 | 2330               | 15              | 20            | 100                | 35              | 7               |
| TOTALS & AVE     |           | 50          | 0                | 0            | 0    | 50                | 0    | 0.0       | 0.0   | 0                 | 2330               | 15              | 20            | 100                | 35              | 7               |
| FRIENOSVILLE N   |           | 220         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 220         | 40               | 100          | 0    | 80                | 0    | 100.0     | 0.0   | 0                 | 1650               | 10              | 15            | 40                 | 34              | 10              |
| BETHEL           |           | 10          | 0                | 0            | 10   | 0                 | 0    | 0.0       | 0.0   | 0                 | 2300               | 11              | 20            | 100                | 35              | 7               |
| TOTALS & AVE     |           | 230         | 40               | 100          | 10   | 80                | 0    | 100.0     | 0.0   | 0                 | 1681               | 10              | 15            | 43                 | 34              | 10              |
| FROGTOWN         |           | 90          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 90          | 0                | 0            | 0    | 90                | 0    | 0.0       | 0.0   | 0                 | 950                | 7               | 20            | 200                | 32              | 13              |
| TOTALS & AVE     |           | 90          | 0                | 0            | 0    | 90                | 0    | 0.0       | 0.0   | 0                 | 950                | 7               | 20            | 200                | 32              | 13              |
| FROGTOWN N       |           | 410         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| ST LOUIS         |           | 60          | 0                | 0            | 0    | 60                | 0    | 60.0      | 0.0   | 0                 | 1200               | 10              | 14            | 100                | 35              | 9               |
| DEV-SIL          |           | 350         | 0                | 0            | 0    | 330               | 20   | 69.2      | 100.0 | 0                 | 2225               | 50              | 18            | 200                | 35              | 9               |
| TOTALS & AVE     |           | 410         | 0                | 0            | 0    | 390               | 20   | 67.8      | 100.0 | 0                 | 2191               | 44              | 18            | 197                | 35              | 9               |
| GAROS POINT C    |           | 650         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| OHARA            |           | 650         | 0                | 0            | 0    | 450               | 200  | 60.9      | 100.0 | 0                 | 2870               | 6               | 16            | 80                 | 40              | 6               |
| TOTALS & AVE     |           | 650         | 0                | 0            | 0    | 450               | 200  | 60.9      | 100.0 | 0                 | 2870               | 6               | 16            | 80                 | 40              | 6               |
| GAYS             |           | 90          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        |           | 80          | 0                | 0            | 0    | 80                | 0    | 20.0      | 0.0   | 0                 | 1970               | 5               | 17            | 50                 | 36              | 7               |
| CARPER           |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2950               | 16              | 12            | 10                 | 37              | 6               |
| DEVONIAN         |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 3200               | 3               | 11            | 10                 | 38              | 6               |
| TOTALS & AVE     |           | 100         | 0                | 0            | 0    | 100               | 0    | 26.0      | 0.0   | 0                 | 2298               | 6               | 15            | 37                 | 36              | 7               |
| GERMANTOWN E     |           | 380         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| SILURIAN         |           | 380         | 220              | 0            | 0    | 120               | 40   | 90.0      | 100.0 | 1                 | 2350               | 30              | 12            | 100                | 40              | 5               |
| TOTALS & AVE     |           | 380         | 220              | 0            | 0    | 120               | 40   | 90.0      | 100.0 | 1                 | 2350               | 30              | 12            | 100                | 40              | 5               |
| GILA             |           | 430         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        |           | 430         | 370              | 0            | 0    | 60                | 0    | 50.0      | 0.0   | 0                 | 2850               | 7               | 13            | 275                | 39              | 4               |
| TOTALS & AVE     |           | 430         | 370              | 0            | 0    | 60                | 0    | 50.0      | 0.0   | 0                 | 2850               | 7               | 13            | 275                | 39              | 4               |
| GILLESPIE-WYEN   |           | 70          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 70          | 0                | 0            | 0    | 70                | 0    | 28.6      | 0.0   | 0                 | 630                | 12              | 18            | 100                | 28              | 30              |
| TOTALS & AVE     |           | 70          | 0                | 0            | 0    | 70                | 0    | 28.6      | 0.0   | 0                 | 630                | 12              | 18            | 100                | 28              | 30              |
| GLENARM          |           | 130         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| SILURIAN         |           | 130         | 0                | 0            | 0    | 130               | 0    | 40.0      | 0.0   | 0                 | 1680               | 9               | 14            | 20                 | 40              | 5               |
| TOTALS & AVE     |           | 130         | 0                | 0            | 0    | 130               | 0    | 40.0      | 0.0   | 0                 | 1680               | 9               | 14            | 20                 | 40              | 5               |
| GOLOENGATE C     |           | 6700        |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 90          | 0                | 0            | 90   | 0                 | 0    | 0.0       | 0.0   | 0                 | 2950               | 10              | 17            | 50                 | 36              | 7               |
| BETHFL           |           | 350         | 130              | 20           | 60   | 140               | 0    | 72.7      | 0.0   | 0                 | 3100               | 11              | 18            | 30                 | 37              | 5               |
| AUX VASES        |           | 3390        | 1010             | 590          | 420  | 1260              | 110  | 64.1      | 72.7  | 0                 | 3200               | 15              | 18            | 100                | 40              | 5               |
| STE GEN          |           | 4070        | 1210             | 410          | 320  | 1920              | 210  | 52.4      | 42.9  | 4                 | 3250               | 10              | 16            | 102                | 37              | 7               |
| ST LOUIS         |           | 20          | 0                | 0            | 10   | 10                | 0    | 100.0     | 0.0   | 0                 | 3430               | 10              | 10            | 5                  | 40              | 5               |
| ULLIN            |           | 30          | 0                | 0            | 0    | 30                | 0    | 66.7      | 0.0   | 0                 | 4115               | 4               | 12            | 20                 | 39              | 5               |
| OUTCH CREEK      |           | 350         | 0                | 0            | 100  | 170               | 80   | 100.0     | 100.0 | 0                 | 5350               | 10              | 12            | 120                | 39              | 5               |
| TOTALS & AVE     |           | 8300        | 2350             | 1020         | 1000 | 3530              | 400  | 60.0      | 62.5  | 4                 | 3291               | 12              | 17            | 98                 | 39              | 6               |
| GOLOENGATE E     |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| OHARA            |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 3290               | 3               | 16            | 100                | 37              | 6               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 3290               | 3               | 16            | 100                | 37              | 6               |
| GOLOENGATE N C   |           | 530         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| BETHEL           |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 3100               | 10              | 18            | 30                 | 38              | 5               |
| AUX VASES        |           | 360         | 0                | 0            | 0    | 350               | 10   | 79.3      | 100.0 | 1                 | 3230               | 20              | 18            | 100                | 39              | 5               |
| STE GEN          |           | 280         | 0                | 0            | 0    | 270               | 10   | 66.7      | 100.0 | 0                 | 3300               | 7               | 16            | 143                | 37              | 6               |
| TOTALS & AVE     |           | 650         | 0                | 0            | 0    | 630               | 20   | 74.2      | 100.0 | 1                 | 3243               | 14              | 18            | 108                | 39              | 5               |
| GRANOVIEV        |           | 70          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 70          | 0                | 0            | 0    | 70                | 0    | 66.7      | 0.0   | 0                 | 550                | 8               | 19            | 200                | 30              | 19              |
| TOTALS & AVE     |           | 70          | 0                | 0            | 0    | 70                | 0    | 66.7      | 0.0   | 0                 | 550                | 8               | 19            | 200                | 30              | 19              |
| GRAYSON          |           | 30          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2510               | 6               | 18            | 70                 | 37              | 6               |
| AUX VASES        |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2870               | 14              | 18            | 50                 | 38              | 5               |
| MCCLOSKEY        |           | 20          | 0                | 0            | 0    | 20                | 0    | 50.0      | 0.0   | 0                 | 2920               | 6               | 15            | 150                | 37              | 6               |
| TOTALS & AVE     |           | 40          | 0                | 0            | 0    | 40                | 0    | 50.0      | 0.0   | 0                 | 2821               | 8               | 17            | 91                 | 37              | 6               |

| Field name   | Areal<br>acrea | Waterflood<br>acres |              |                | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|--------------|----------------|---------------------|--------------|----------------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|              |                |                     |              |                | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poroa-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(*API) | Vis-<br>cosity<br>(cp) |
|              | Pay name       | Pay<br>acres        | Act-<br>tive | Aban-<br>doned | Unde-<br>veloped  | Edge | Inter-<br>rior | Edge  |                         |                    |                        |                      |                           |                        |                        |
| GREENVILLE   | 10             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| LINGLE       | 10             | 0                   | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                       | 2240               | 5                      | 12                   | 100                       | 38                     | 5                      |
| TOTALS & AVE | 10             | 0                   | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                       | 2240               | 5                      | 12                   | 100                       | 38                     | 5                      |
| HALF MOON    | 1170           |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES    | 20             | 0                   | 0            | 0              | 20                | 0    | 50.0           | 0.0   | 0                       | 3200               | 18                     | 18                   | 100                       | 38                     | 8                      |
| STE GEN      | 1160           | 1070                | 0            | 0              | 90                | 0    | 75.0           | 0.0   | 0                       | 3280               | 8                      | 17                   | 100                       | 39                     | 5                      |
| TOTALS & AVE | 1180           | 1070                | 0            | 0              | 110               | 0    | 70.5           | 0.0   | 0                       | 3277               | 8                      | 17                   | 100                       | 39                     | 5                      |
| HARCO        | 980            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| HARCOINSBURG | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2330               | 6                      | 18                   | 150                       | 36                     | 7                      |
| CYPRESS      | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2550               | 20                     | 19                   | 100                       | 38                     | 5                      |
| SAMPLE       | 20             | 0                   | 0            | 0              | 20                | 0    | 0.0            | 0.0   | 2                       | 2680               | 8                      | 17                   | 50                        | 39                     | 4                      |
| AUX VASES    | 880            | 100                 | 0            | 0              | 580               | 200  | 73.9           | 94.4  | 1                       | 2880               | 12                     | 22                   | 100                       | 41                     | 4                      |
| STE GEN      | 210            | 0                   | 0            | 0              | 160               | 50   | 42.9           | 80.0  | 1                       | 2920               | 10                     | 14                   | 40                        | 39                     | 5                      |
| TOTALS & AVE | 1130           | 100                 | 0            | 0              | 780               | 250  | 66.3           | 91.6  | 4                       | 2876               | 12                     | 21                   | 90                        | 41                     | 4                      |
| HARCO E      | 250            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      | 70             | 0                   | 30           | 0              | 40                | 0    | 25.0           | 0.0   | 0                       | 2560               | 11                     | 19                   | 100                       | 38                     | 5                      |
| AUX VASES    | 200            | 0                   | 130          | 0              | 70                | 0    | 16.7           | 0.0   | 0                       | 2860               | 14                     | 20                   | 80                        | 38                     | 5                      |
| OHARA        | 30             | 0                   | 0            | 20             | 10                | 0    | 100.0          | 0.0   | 0                       | 2880               | 14                     | 14                   | 40                        | 39                     | 5                      |
| TOTALS & AVE | 300            | 0                   | 160          | 20             | 120               | 0    | 26.4           | 0.0   | 0                       | 2804               | 13                     | 19                   | 80                        | 38                     | 5                      |
| HARRISBURG   | 100            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| WALTERSBURG  | 90             | 70                  | 0            | 0              | 20                | 0    | 100.0          | 0.0   | 0                       | 2050               | 11                     | 16                   | 100                       | 38                     | 6                      |
| TAR SPRINGS  | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2085               | 6                      | 18                   | 75                        | 37                     | 6                      |
| TOTALS & AVE | 100            | 70                  | 0            | 0              | 30                | 0    | 100.0          | 0.0   | 0                       | 2052               | 11                     | 16                   | 99                        | 38                     | 6                      |
| HARRISBURG S | 10             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      | 10             | 0                   | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                       | 2310               | 6                      | 18                   | 80                        | 37                     | 7                      |
| TOTALS & AVE | 10             | 0                   | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                       | 2310               | 6                      | 18                   | 80                        | 37                     | 7                      |
| HARRISTOWN   | 190            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN     | 190            | 0                   | 0            | 0              | 180               | 10   | 36.4           | 100.0 | 0                       | 2060               | 3                      | 12                   | 10                        | 39                     | 4                      |
| TOTALS & AVE | 190            | 0                   | 0            | 0              | 180               | 10   | 36.4           | 100.0 | 0                       | 2060               | 3                      | 12                   | 10                        | 39                     | 4                      |
| HAYES        | 460            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TRENTON      | 460            | 0                   | 0            | 0              | 270               | 190  | 100.0          | 100.0 | 0                       | 900                | 99                     | 12                   | 2                         | 31                     | 28                     |
| TOTALS & AVE | 460            | 0                   | 0            | 0              | 270               | 190  | 100.0          | 100.0 | 0                       | 900                | 99                     | 12                   | 2                         | 31                     | 28                     |
| HERALO C     | 6260           |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN  | 340            | 0                   | 70           | 60             | 210               | 0    | 47.1           | 0.0   | 0                       | 1540               | 9                      | 16                   | 31                        | 35                     | 8                      |
| OEGONIA      | 80             | 0                   | 0            | 0              | 70                | 10   | 0.0            | 0.0   | 0                       | 1930               | 18                     | 17                   | 56                        | 36                     | 7                      |
| CLORE        | 60             | 0                   | 0            | 30             | 30                | 0    | 100.0          | 0.0   | 0                       | 1950               | 10                     | 18                   | 100                       | 36                     | 6                      |
| PALESTINE    | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 1940               | 20                     | 17                   | 50                        | 34                     | 9                      |
| WALTERSBURG  | 510            | 270                 | 0            | 0              | 180               | 60   | 72.7           | 66.7  | 0                       | 2250               | 10                     | 20                   | 100                       | 33                     | 8                      |
| TAR SPRINGS  | 690            | 140                 | 0            | 90             | 460               | 0    | 64.1           | 0.0   | 0                       | 2251               | 10                     | 17                   | 113                       | 38                     | 5                      |
| CYPRESS      | 1880           | 900                 | 80           | 110            | 780               | 10   | 57.4           | 100.0 | 1                       | 2650               | 14                     | 16                   | 73                        | 35                     | 8                      |
| BETHEL       | 180            | 0                   | 0            | 0              | 180               | 0    | 31.3           | 0.0   | 0                       | 2800               | 11                     | 16                   | 32                        | 37                     | 5                      |
| AUX VASES    | 3040           | 1020                | 260          | 180            | 1290              | 290  | 69.6           | 100.0 | 0                       | 2905               | 14                     | 15                   | 100                       | 38                     | 5                      |
| STE GEN      | 510            | 0                   | 0            | 120            | 390               | 0    | 60.6           | 0.0   | 0                       | 2968               | 10                     | 15                   | 66                        | 36                     | 6                      |
| TOTALS & AVE | 7300           | 2330                | 410          | 590            | 3600              | 370  | 61.2           | 91.9  | 1                       | 2682               | 13                     | 16                   | 87                        | 37                     | 6                      |
| HERRIN       | 10             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2210               | 8                      | 17                   | 50                        | 38                     | 5                      |
| TOTALS & AVE | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2210               | 8                      | 17                   | 50                        | 38                     | 5                      |
| HICKORY HILL | 60             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      | 10             | 0                   | 0            | 10             | 0                 | 0    | 0.0            | 0.0   | 0                       | 2475               | 10                     | 18                   | 100                       | 36                     | 6                      |
| BENOIST      | 20             | 20                  | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                       | 2650               | 7                      | 16                   | 50                        | 37                     | 6                      |
| SPAR MTN     | 10             | 0                   | 0            | 10             | 0                 | 0    | 0.0            | 0.0   | 0                       | 2830               | 6                      | 16                   | 100                       | 37                     | 6                      |
| TOTALS & AVE | 40             | 20                  | 0            | 20             | 0                 | 0    | 0.0            | 0.0   | 0                       | 2628               | 8                      | 17                   | 77                        | 37                     | 6                      |
| HIOALGO      | 50             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY    | 50             | 0                   | 0            | 0              | 50                | 0    | 25.0           | 0.0   | 0                       | 2575               | 5                      | 14                   | 150                       | 37                     | 5                      |
| TOTALS & AVE | 50             | 0                   | 0            | 0              | 50                | 0    | 25.0           | 0.0   | 0                       | 2575               | 5                      | 14                   | 150                       | 37                     | 5                      |
| HIOALGO E    | 10             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY    | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2467               | 6                      | 15                   | 175                       | 37                     | 5                      |
| TOTALS & AVE | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2467               | 6                      | 15                   | 175                       | 37                     | 5                      |
| HIOALGO N    | 220            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      | 220            | 0                   | 0            | 0              | 210               | 10   | 66.7           | 100.0 | 0                       | 2650               | 10                     | 16                   | 200                       | 37                     | 5                      |
| TOTALS & AVE | 220            | 0                   | 0            | 0              | 210               | 10   | 66.7           | 100.0 | 0                       | 2650               | 10                     | 16                   | 200                       | 37                     | 5                      |
| HIOALGO S    | 50             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY    | 50             | 0                   | 0            | 0              | 50                | 0    | 75.0           | 0.0   | 0                       | 2630               | 4                      | 15                   | 100                       | 37                     | 5                      |
| TOTALS & AVE | 50             | 0                   | 0            | 0              | 50                | 0    | 75.0           | 0.0   | 0                       | 2630               | 4                      | 15                   | 100                       | 37                     | 5                      |
| HIGHLAND     | 10             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| HARDIN       | 10             | 0                   | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                       | 1940               | 7                      | 14                   | 40                        | 37                     | 26                     |
| TOTALS & AVE | 10             | 0                   | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                       | 1940               | 7                      | 14                   | 40                        | 37                     | 26                     |
| HILL         | 40             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY    | 40             | 0                   | 0            | 0              | 40                | 0    | 0.0            | 0.0   | 0                       | 2554               | 5                      | 17                   | 163                       | 39                     | 5                      |
| TOTALS & AVE | 40             | 0                   | 0            | 0              | 40                | 0    | 0.0            | 0.0   | 0                       | 2554               | 5                      | 17                   | 163                       | 39                     | 5                      |
| HILL E       | 480            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      | 290            | 0                   | 190          | 0              | 90                | 10   | 25.0           | 100.0 | 0                       | 2460               | 13                     | 18                   | 100                       | 37                     | 7                      |
| AUX VASES    | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2650               | 10                     | 18                   | 50                        | 37                     | 6                      |
| STE GEN      | 240            | 0                   | 0            | 0              | 200               | 40   | 63.6           | 100.0 | 0                       | 2690               | 7                      | 17                   | 175                       | 39                     | 5                      |
| ST LOUIS     | 10             | 0                   | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                       | 2929               | 14                     | 13                   | 22                        | 37                     | 6                      |
| TOTALS & AVE | 550            | 0                   | 190          | 0              | 310               | 50   | 54.8           | 100.0 | 0                       | 2543               | 10                     | 18                   | 119                       | 38                     | 6                      |
| HILLSBORO    | 40             |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| LINGLE       | 40             | 0                   | 0            | 0              | 40                | 0    | 0.0            | 0.0   | 0                       | 2010               | 4                      | 12                   | 30                        | 36                     | 8                      |
| TOTALS & AVE | 40             | 0                   | 0            | 0              | 40                | 0    | 0.0            | 0.0   | 0                       | 2010               | 4                      | 12                   | 30                        | 36                     | 8                      |
| HOFFMAN      | 350            |                     |              |                |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      | 180            | 0                   | 0            | 0              | 180               | 0    | 72.2           | 0.0   | 2                       | 1200               | 11                     | 19                   | 150                       | 36                     | 10                     |
| BENOIST      | 240            | 0                   | 0            | 0              | 160               | 80   | 80.0           | 100.0 | 0                       | 1320               | 8                      | 17                   | 50                        | 33                     | 11                     |
| TOTALS & AVE | 420            | 0                   | 0            | 0              | 340               | 80   | 75.9           | 100.0 | 2                       | 1259               | 9                      | 18                   | 101                       | 35                     | 10                     |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name   |           | Areal acres | Waterflood acres |              |      | Remaining primary |      |           |       | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|--------------|-----------|-------------|------------------|--------------|------|-------------------|------|-----------|-------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|              |           |             |                  |              |      | Acres             |      | % Active  |       |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name     | Pay acres | Act-ive     | Aban-doned       | Unde-veloped | Edge | Inter-ior         | Edge | Inter-ior |       |                   |                    |                 |               |                    |                 |                 |
| HOOOVILLE E  |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY    |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 3365               | 3               | 15            | 100                | 37              | 6               |
| TOTALS & AVE |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 3365               | 3               | 15            | 100                | 37              | 6               |
| HORO         |           | 270         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES    |           | 70          | 40               | 0            | 0    | 30                | 0    | 0.0       | 0.0   | 0                 | 2700               | 10              | 17            | 50                 | 38              | 8               |
| STE GEN      |           | 270         | 40               | 0            | 40   | 170               | 20   | 0.0       | 0.0   | 0                 | 2796               | 7               | 17            | 490                | 37              | 6               |
| TOTALS & AVE |           | 340         | 80               | 0            | 40   | 200               | 20   | 0.0       | 0.0   | 0                 | 2770               | 8               | 17            | 371                | 37              | 7               |
| HORO N       |           | 60          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS      |           | 40          | 0                | 0            | 0    | 40                | 0    | 66.7      | 0.0   | 0                 | 2430               | 8               | 18            | 75                 | 33              | 15              |
| AUX VASES    |           | 30          | 0                | 0            | 0    | 30                | 0    | 66.7      | 0.0   | 0                 | 2630               | 10              | 18            | 50                 | 38              | 8               |
| TOTALS & AVE |           | 70          | 0                | 0            | 0    | 70                | 0    | 66.7      | 0.0   | 0                 | 2527               | 9               | 18            | 63                 | 35              | 12              |
| HORO S C     |           | 360         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES    |           | 20          | 0                | 0            | 10   | 10                | 0    | 100.0     | 0.0   | 0                 | 2735               | 8               | 18            | 50                 | 37              | 7               |
| STE GEN      |           | 360         | 230              | 0            | 120  | 10                | 0    | 0.0       | 0.0   | 0                 | 2790               | 6               | 17            | 561                | 36              | 7               |
| TOTALS & AVE |           | 380         | 230              | 0            | 130  | 20                | 0    | 50.0      | 0.0   | 0                 | 2786               | 6               | 17            | 526                | 36              | 7               |
| HORNSBY S    |           | 50          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN  |           | 50          | 0                | 0            | 0    | 50                | 0    | 0.0       | 0.0   | 0                 | 640                | 10              | 18            | 100                | 28              | 36              |
| TOTALS & AVE |           | 50          | 0                | 0            | 0    | 50                | 0    | 0.0       | 0.0   | 0                 | 640                | 10              | 18            | 100                | 28              | 36              |
| HOYLETON W   |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CLEAR CREEK  |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2890               | 20              | 14            | 30                 | 39              | 4               |
| TOTALS & AVE |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2890               | 20              | 14            | 30                 | 39              | 4               |
| HUFY         |           | 80          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| RENOIST      |           | 80          | 0                | 0            | 0    | 80                | 0    | 14.3      | 0.0   | 0                 | 1250               | 7               | 17            | 50                 | 34              | 10              |
| TOTALS & AVE |           | 80          | 0                | 0            | 0    | 80                | 0    | 14.3      | 0.0   | 0                 | 1250               | 7               | 17            | 50                 | 34              | 10              |
| HUFY S       |           | 310         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS      |           | 190         | 0                | 0            | 0    | 140               | 50   | 72.7      | 100.0 | 0                 | 1080               | 5               | 19            | 150                | 34              | 9               |
| SILURIAN     |           | 110         | 0                | 0            | 0    | 110               | 0    | 71.4      | 0.0   | 0                 | 2600               | 15              | 12            | 100                | 40              | 6               |
| TOTALS & AVE |           | 300         | 0                | 0            | 0    | 250               | 50   | 72.2      | 100.0 | 0                 | 2045               | 9               | 15            | 118                | 38              | 7               |
| HUNT CITY    |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| SPAR MTN     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2540               | 10              | 16            | 200                | 37              | 5               |
| TOTALS & AVE |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2540               | 10              | 16            | 200                | 37              | 5               |
| HUNT CITY E  |           | 80          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| EREOONIA     |           | 80          | 0                | 0            | 0    | 80                | 0    | 66.7      | 0.0   | 0                 | 1840               | 8               | 15            | 100                | 40              | 4               |
| ST LOUIS     |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2187               | 20              | 12            | 20                 | 39              | 4               |
| TOTALS & AVE |           | 90          | 0                | 0            | 0    | 90                | 0    | 70.4      | 0.0   | 0                 | 1923               | 9               | 14            | 81                 | 40              | 4               |
| HUNT CITY S  |           | 30          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY    |           | 30          | 0                | 0            | 0    | 30                | 0    | 66.7      | 0.0   | 0                 | 2341               | 4               | 15            | 150                | 38              | 4               |
| TOTALS & AVE |           | 30          | 0                | 0            | 0    | 30                | 0    | 66.7      | 0.0   | 0                 | 2341               | 4               | 15            | 150                | 38              | 4               |
| HUTTON       |           | 20          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN  |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 530                | 15              | 19            | 200                | 30              | 18              |
| TOTALS & AVE |           | 20          | 0                | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 530                | 15              | 19            | 200                | 30              | 18              |
| INA          |           | 430         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| RENAULT      |           | 150         | 130              | 0            | 0    | 20                | 0    | 0.0       | 0.0   | 0                 | 2640               | 10              | 22            | 96                 | 36              | 6               |
| AUX VASES    |           | 30          | 0                | 0            | 0    | 30                | 0    | 66.7      | 0.0   | 0                 | 2700               | 26              | 18            | 100                | 36              | 7               |
| STE GEN      |           | 110         | 110              | 0            | 0    | 0                 | 0    | 0.0       | 0.0   | 0                 | 2750               | 8               | 13            | 25                 | 35              | 8               |
| ST LOUIS     |           | 90          | 0                | 0            | 0    | 90                | 0    | 57.1      | 0.0   | 0                 | 3020               | 7               | 13            | 25                 | 37              | 6               |
| SALEM        |           | 40          | 0                | 0            | 0    | 40                | 0    | 50.0      | 0.0   | 0                 | 3210               | 9               | 12            | 100                | 37              | 6               |
| TOTALS & AVE |           | 420         | 240              | 0            | 0    | 180               | 0    | 50.8      | 0.0   | 0                 | 2782               | 10              | 17            | 71                 | 36              | 7               |
| INA N        |           | 10          |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY    |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2770               | 10              | 16            | 80                 | 35              | 8               |
| TOTALS & AVE |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0       | 0.0   | 0                 | 2770               | 10              | 16            | 80                 | 35              | 8               |
| INCLOSE      |           | 110         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN  |           | 110         | 0                | 0            | 0    | 40                | 70   | 100.0     | 100.0 | 0                 | 345                | 8               | 20            | 200                | 30              | 18              |
| TOTALS & AVE |           | 110         | 0                | 0            | 0    | 40                | 70   | 100.0     | 100.0 | 0                 | 345                | 8               | 20            | 200                | 30              | 18              |
| INGRAHAM     |           | 540         |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES    |           | 60          | 0                | 0            | 10   | 50                | 0    | 20.0      | 0.0   | 0                 | 2915               | 15              | 18            | 50                 | 38              | 7               |
| STE GEN      |           | 490         | 0                | 420          | 0    | 70                | 0    | 25.0      | 0.0   | 0                 | 3000               | 8               | 15            | 200                | 38              | 5               |
| TOTALS & AVE |           | 550         | 0                | 420          | 10   | 120               | 0    | 22.9      | 0.0   | 0                 | 2984               | 9               | 16            | 172                | 38              | 5               |
| INMAN E C    |           | 4400        |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN  |           | 70          | 0                | 0            | 70   | 0                 | 0    | 0.0       | 0.0   | 0                 | 800                | 10              | 16            | 50                 | 35              | 8               |
| OFGONIA      |           | 90          | 0                | 0            | 90   | 0                 | 0    | 0.0       | 0.0   | 0                 | 1690               | 10              | 15            | 30                 | 37              | 6               |
| CLORE        |           | 50          | 50               | 0            | 0    | 0                 | 0    | 0.0       | 0.0   | 0                 | 1725               | 8               | 18            | 100                | 36              | 6               |
| PALESTINE    |           | 90          | 40               | 0            | 50   | 0                 | 0    | 0.0       | 0.0   | 0                 | 1850               | 12              | 18            | 200                | 35              | 8               |
| WALTERSBURG  |           | 1220        | 850              | 0            | 0    | 350               | 20   | 91.7      | 66.7  | 1                 | 2000               | 15              | 20            | 100                | 37              | 6               |
| TAR SPRINGS  |           | 1840        | 760              | 840          | 40   | 160               | 40   | 30.8      | 25.0  | 0                 | 2100               | 13              | 18            | 75                 | 37              | 6               |
| HAROLDSBURG  |           | 280         | 300              | 0            | 0    | 60                | 0    | 0.0       | 0.0   | 0                 | 2150               | 10              | 17            | 50                 | 34              | 8               |
| CYPRESS      |           | 2350        | 1480             | 190          | 10   | 220               | 0    | 66.7      | 0.0   | 0                 | 2180               | 12              | 19            | 200                | 37              | 6               |
| RENAULT      |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 2675               | 5               | 18            | 75                 | 36              | 6               |
| AUX VASES    |           | 490         | 0                | 150          | 110  | 230               | 0    | 52.9      | 0.0   | 0                 | 2700               | 9               | 18            | 100                | 37              | 5               |
| STE GEN      |           | 140         | 0                | 0            | 110  | 30                | 0    | 0.0       | 0.0   | 0                 | 2800               | 7               | 15            | 30                 | 38              | 5               |
| ST LOUIS     |           | 30          | 0                | 0            | 0    | 30                | 0    | 66.7      | 0.0   | 0                 | 2960               | 10              | 12            | 20                 | 38              | 5               |
| TOTALS & AVE |           | 6660        | 3480             | 1180         | 480  | 1090              | 60   | 61.3      | 38.9  | 1                 | 2130               | 12              | 19            | 124                | 37              | 6               |
| INMAN W C    |           | 3740        |                  |              |      |                   |      |           |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN  |           | 170         | 130              | 0            | 0    | 40                | 0    | 0.0       | 0.0   | 0                 | 1550               | 10              | 16            | 50                 | 35              | 8               |
| PALESTINE    |           | 40          | 0                | 0            | 0    | 40                | 0    | 75.0      | 0.0   | 0                 | 1750               | 13              | 18            | 200                | 35              | 8               |
| WALTERSBURG  |           | 130         | 0                | 0            | 20   | 90                | 20   | 85.7      | 100.0 | 1                 | 2100               | 10              | 20            | 100                | 37              | 6               |
| TAR SPRINGS  |           | 1250        | 320              | 110          | 100  | 650               | 70   | 77.3      | 85.7  | 0                 | 2150               | 10              | 18            | 75                 | 36              | 6               |
| HAROLDSBURG  |           | 260         | 80               | 0            | 10   | 170               | 0    | 56.3      | 0.0   | 1                 | 2260               | 10              | 17            | 50                 | 32              | 9               |
| CYPRESS      |           | 2130        | 630              | 190          | 0    | 1170              | 140  | 83.0      | 85.7  | 1                 | 2475               | 10              | 17            | 100                | 37              | 6               |
| SAMPLE       |           | 50          | 0                | 0            | 0    | 50                | 0    | 80.0      | 0.0   | 0                 | 2744               | 10              | 14            | 34                 | 36              | 7               |
| RENAULT      |           | 30          | 0                | 0            | 0    | 30                | 0    | 100.0     | 0.0   | 0                 | 2775               | 7               | 17            | 60                 | 37              | 6               |
| AUX VASES    |           | 860         | 0                | 0            | 30   | 670               | 160  | 83.0      | 87.5  | 0                 | 2800               | 15              | 16            | 40                 | 37              | 5               |
| STE GEN      |           | 250         | 0                | 0            | 10   | 240               | 0    | 56.5      | 0.0   | 0                 | 2810               | 15              | 15            | 35                 | 38              | 5               |
| ST LOUIS     |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0     | 0.0   | 0                 | 3180               | 6               | 12            | 20                 | 39              | 4               |
| TOTALS & AVE |           | 5180        | 1160             | 300          | 170  | 3160              | 390  | 77.5      | 87.2  | 3                 | 2451               | 11              | 17            | 73                 | 37              | 6               |



TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name       |           | Areal acres | Waterflood acres |              |      | Remaining primary |      |            |       | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|------------------|-----------|-------------|------------------|--------------|------|-------------------|------|------------|-------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                  |           |             |                  |              |      | Acres             |      | % Active   |       |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name         | Pay acres | Act-ive     | Aban-doned       | Unde-veloped | Edge | Inter-rior        | Edge | Inter-rior |       |                   |                    |                 |               |                    |                 |                 |
| IOLA CENTRAL     |           | 20          |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| BENOIST          |           | 20          | 0                | 0            | 0    | 20                | 0    | 50.0       | 0.0   | 0                 | 2420               | 5               | 16            | 80                 | 36              | 7               |
| TOTALS & AVE     |           | 20          | 0                | 0            | 0    | 20                | 0    | 50.0       | 0.0   | 0                 | 2420               | 5               | 16            | 80                 | 36              | 7               |
| IOLA C           |           | 3240        |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS      |           | 20          | 20               | 0            | 0    | 0                 | 0    | 0.0        | 0.0   | 0                 | 1890               | 9               | 17            | 50                 | 35              | 8               |
| CYPRESS          |           | 700         | 0                | 0            | 410  | 200               | 90   | 81.3       | 88.9  | 2                 | 2125               | 15              | 18            | 100                | 35              | 7               |
| BETHEL           |           | 60          | 60               | 0            | 0    | 0                 | 0    | 0.0        | 0.0   | 0                 | 2250               | 10              | 16            | 50                 | 36              | 7               |
| BENOIST          |           | 1230        | 820              | 0            | 100  | 140               | 170  | 81.8       | 88.2  | 2                 | 2300               | 12              | 16            | 80                 | 36              | 7               |
| RENAULT          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0      | 0.0   | 0                 | 2320               | 6               | 15            | 50                 | 37              | 6               |
| AUX VASES        |           | 2270        | 830              | 600          | 0    | 540               | 300  | 59.5       | 86.2  | 0                 | 2350               | 14              | 16            | 80                 | 36              | 7               |
| STE GEN          |           | 1360        | 260              | 0            | 110  | 870               | 120  | 50.8       | 83.3  | 0                 | 2400               | 13              | 16            | 100                | 37              | 6               |
| TOTALS & AVE     |           | 5650        | 1990             | 600          | 620  | 1760              | 680  | 59.7       | 86.6  | 4                 | 2319               | 13              | 16            | 87                 | 36              | 7               |
| IOLA S           |           | 240         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| BENOIST          |           | 160         | 0                | 0            | 0    | 150               | 10   | 41.7       | 100.0 | 0                 | 2490               | 10              | 16            | 80                 | 36              | 7               |
| STE GEN          |           | 130         | 0                | 0            | 0    | 130               | 0    | 45.5       | 0.0   | 0                 | 2600               | 5               | 17            | 150                | 37              | 6               |
| CARPFR           |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0      | 0.0   | 0                 | 3900               | 7               | 16            | 30                 | 38              | 5               |
| TOTALS & AVE     |           | 300         | 0                | 0            | 0    | 290               | 10   | 45.4       | 100.0 | 0                 | 2563               | 8               | 16            | 98                 | 36              | 7               |
| IOLA W           |           | 10          |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0        | 0.0   | 0                 | 2500               | 11              | 15            | 100                | 37              | 6               |
| TOTALS & AVE     |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0        | 0.0   | 0                 | 2500               | 11              | 15            | 100                | 37              | 6               |
| IRVINGTON        |           | 1390        |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| GOLCONDA         |           | 10          | 0                | 0            | 0    | 10                | 0    | 0.0        | 0.0   | 0                 | 1550               | 3               | 14            | 30                 | 38              | 5               |
| CYPRESS          |           | 410         | 230              | 0            | 0    | 150               | 30   | 75.0       | 100.0 | 1                 | 1380               | 12              | 18            | 100                | 36              | 6               |
| BENOIST          |           | 1020        | 170              | 0            | 0    | 460               | 390  | 77.1       | 100.0 | 7                 | 1530               | 12              | 18            | 100                | 37              | 5               |
| CLEAR CREEK      |           | 280         | 0                | 0            | 70   | 170               | 40   | 87.5       | 100.0 | 0                 | 3090               | 20              | 10            | 15                 | 39              | 5               |
| TRENTON          |           | 110         | 0                | 0            | 0    | 110               | 0    | 100.0      | 0.0   | 0                 | 4250               | 90              | 6             | 3                  | 39              | 6               |
| TOTALS & AVE     |           | 1830        | 400              | 0            | 70   | 900               | 460  | 80.7       | 100.0 | 8                 | 2598               | 18              | 13            | 56                 | 38              | 5               |
| IRVINGTON E      |           | 340         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 40          | 0                | 0            | 0    | 40                | 0    | 75.0       | 0.0   | 1                 | 1030               | 15              | 20            | 100                | 32              | 15              |
| CYPRESS          |           | 120         | 0                | 0            | 0    | 90                | 30   | 75.0       | 100.0 | 0                 | 1750               | 15              | 18            | 100                | 37              | 6               |
| BENOIST          |           | 260         | 40               | 0            | 0    | 180               | 40   | 100.0      | 100.0 | 0                 | 1950               | 8               | 18            | 100                | 37              | 6               |
| TOTALS & AVE     |           | 420         | 40               | 0            | 0    | 310               | 70   | 89.5       | 100.0 | 1                 | 1746               | 11              | 18            | 100                | 36              | 7               |
| IRVINGTON N      |           | 290         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 40          | 0                | 0            | 0    | 40                | 0    | 100.0      | 0.0   | 0                 | 1350               | 16              | 18            | 100                | 37              | 5               |
| BENOIST          |           | 250         | 0                | 0            | 0    | 140               | 110  | 100.0      | 100.0 | 0                 | 1470               | 6               | 18            | 100                | 39              | 4               |
| TOTALS & AVE     |           | 290         | 0                | 0            | 0    | 180               | 110  | 100.0      | 100.0 | 0                 | 1434               | 7               | 18            | 100                | 38              | 4               |
| IRVINGTON W      |           | 50          |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 50          | 0                | 0            | 0    | 50                | 0    | 75.0       | 0.0   | 0                 | 1460               | 20              | 18            | 100                | 36              | 5               |
| TOTALS & AVE     |           | 50          | 0                | 0            | 0    | 50                | 0    | 75.0       | 0.0   | 0                 | 1460               | 20              | 18            | 100                | 36              | 5               |
| IUKA             |           | 710         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        |           | 40          | 0                | 0            | 0    | 40                | 0    | 0.0        | 0.0   | 0                 | 2525               | 11              | 17            | 80                 | 37              | 5               |
| STE GEN          |           | 580         | 190              | 0            | 0    | 290               | 100  | 76.2       | 50.0  | 1                 | 2650               | 10              | 17            | 150                | 38              | 5               |
| ST LOUIS         |           | 200         | 0                | 0            | 40   | 160               | 0    | 100.0      | 0.0   | 0                 | 2775               | 5               | 14            | 25                 | 37              | 6               |
| TOTALS & AVE     |           | 820         | 190              | 0            | 40   | 490               | 100  | 77.7       | 50.0  | 1                 | 2660               | 9               | 17            | 128                | 38              | 5               |
| IUKA W           |           | 50          |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        |           | 50          | 0                | 0            | 0    | 50                | 0    | 50.0       | 0.0   | 0                 | 2700               | 5               | 17            | 150                | 37              | 5               |
| TOTALS & AVE     |           | 50          | 0                | 0            | 0    | 50                | 0    | 50.0       | 0.0   | 0                 | 2700               | 5               | 17            | 150                | 37              | 5               |
| JACKSONVILLE GAS |           | 80          |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 80          | 0                | 0            | 0    | 80                | 0    | 12.5       | 0.0   | 0                 | 1390               | 5               | 20            | 400                | 37              | 4               |
| TOTALS & AVE     |           | 80          | 0                | 0            | 0    | 80                | 0    | 12.5       | 0.0   | 0                 | 1390               | 5               | 20            | 400                | 37              | 4               |
| JOHNSON N        |           | 2360        |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 2360        | 620              | 700          | 0    | 780               | 260  | 35.5       | 62.5  | 0                 | 414                | 34              | 20            | 344                | 33              | 11              |
| MCCLOSKEY        |           | 50          | 0                | 0            | 0    | 50                | 0    | 50.0       | 0.0   | 0                 | 550                | 8               | 16            | 100                | 35              | 7               |
| CARPER           |           | 290         | 0                | 0            | 0    | 160               | 130  | 77.8       | 100.0 | 0                 | 1325               | 30              | 15            | 5                  | 37              | 11              |
| TOTALS & AVE     |           | 2700        | 620              | 700          | 0    | 990               | 390  | 43.1       | 75.0  | 0                 | 503                | 33              | 19            | 310                | 33              | 11              |
| JOHNSON S        |           | 2050        |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      |           | 2040        | 1510             | 0            | 0    | 360               | 170  | 0.0        | 0.0   | 0                 | 420                | 46              | 19            | 250                | 30              | 24              |
| AUX VASES        |           | 40          | 0                | 0            | 20   | 20                | 0    | 0.0        | 0.0   | 0                 | 720                | 20              | 14            | 15                 | 35              | 7               |
| TOTALS & AVE     |           | 2080        | 1510             | 0            | 20   | 380               | 170  | 0.0        | 0.0   | 0                 | 423                | 46              | 19            | 248                | 30              | 24              |
| JOHNSONVILLE C   |           | 8680        |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| BETHEL           |           | 30          | 0                | 0            | 0    | 30                | 0    | 100.0      | 0.0   | 0                 | 2950               | 12              | 17            | 50                 | 36              | 7               |
| AUX VASES        |           | 2640        | 2640             | 0            | 0    | 0                 | 0    | 0.0        | 0.0   | 1                 | 3010               | 17              | 19            | 95                 | 38              | 5               |
| STE GEN          |           | 8000        | 5870             | 0            | 30   | 1060              | 1040 | 34.0       | 72.1  | 2                 | 3110               | 10              | 15            | 139                | 38              | 5               |
| ST LOUIS         |           | 90          | 0                | 0            | 0    | 90                | 0    | 75.0       | 0.0   | 0                 | 3250               | 14              | 12            | 30                 | 38              | 5               |
| SALEM            |           | 40          | 0                | 0            | 0    | 40                | 0    | 100.0      | 0.0   | 0                 | 3850               | 8               | 13            | 30                 | 39              | 4               |
| TOTALS & AVE     |           | 10800       | 8510             | 0            | 30   | 1220              | 1040 | 40.8       | 72.1  | 3                 | 3077               | 12              | 16            | 122                | 38              | 5               |
| JOHNSONVILLE N   |           | 100         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| STE GEN          |           | 100         | 0                | 0            | 0    | 100               | 0    | 0.0        | 0.0   | 0                 | 3190               | 7               | 15            | 150                | 38              | 5               |
| TOTALS & AVE     |           | 100         | 0                | 0            | 0    | 100               | 0    | 0.0        | 0.0   | 0                 | 3190               | 7               | 15            | 150                | 38              | 5               |
| JOHNSONVILLE S   |           | 420         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        |           | 340         | 290              | 0            | 0    | 50                | 0    | 33.3       | 0.0   | 0                 | 3050               | 18              | 20            | 80                 | 38              | 7               |
| STE GEN          |           | 120         | 0                | 0            | 50   | 70                | 0    | 0.0        | 0.0   | 0                 | 3160               | 5               | 15            | 70                 | 38              | 5               |
| TOTALS & AVE     |           | 460         | 290              | 0            | 50   | 120               | 0    | 13.9       | 0.0   | 0                 | 3060               | 15              | 20            | 79                 | 38              | 7               |
| JOHNSONVILLE W   |           | 750         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| BETHEL           |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0      | 0.0   | 0                 | 2900               | 6               | 16            | 50                 | 37              | 6               |
| AUX VASES        |           | 370         | 140              | 0            | 0    | 220               | 10   | 88.2       | 100.0 | 0                 | 2900               | 6               | 19            | 100                | 37              | 5               |
| STE GEN          |           | 370         | 120              | 20           | 0    | 230               | 0    | 50.0       | 0.0   | 0                 | 2930               | 7               | 16            | 118                | 40              | 4               |
| TOTALS & AVE     |           | 750         | 260              | 20           | 0    | 460               | 10   | 69.4       | 100.0 | 0                 | 2916               | 6               | 17            | 109                | 39              | 4               |
| JOHNSTON CITY E  |           | 140         |                  |              |      |                   |      |            |       |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          |           | 130         | 70               | 0            | 0    | 60                | 0    | 100.0      | 0.0   | 0                 | 2290               | 20              | 19            | 100                | 37              | 6               |
| AUX VASES        |           | 140         | 70               | 0            | 0    | 70                | 0    | 100.0      | 0.0   | 0                 | 2620               | 10              | 18            | 100                | 36              | 7               |
| STE GEN          |           | 10          | 0                | 0            | 0    | 10                | 0    | 100.0      | 0.0   | 0                 | 2660               | 10              | 15            | 40                 | 38              | 5               |
| TOTALS & AVE     |           | 280         | 140              | 0            | 0    | 140               | 0    | 100.0      | 0.0   | 0                 | 2412               | 15              | 19            | 99                 | 37              | 6               |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name      |           | Areal acres | Waterflood acrea |               |      | Remaining primary |       |             |   | No. of SWD* wells | Average propertiea |                  |                |                     |                  |                  |
|-----------------|-----------|-------------|------------------|---------------|------|-------------------|-------|-------------|---|-------------------|--------------------|------------------|----------------|---------------------|------------------|------------------|
|                 |           |             |                  |               |      | Acree             |       | % Active    |   |                   | Depth (ft)         | Thick- nesa (ft) | Poros- ity (%) | Perme- ability (md) | Grav- ity (°API) | Via- cosity (cp) |
| Pay name        | Pay acrea | Act- tive   | Aban- doned      | Unde- veloped | Edge | Inter- rior       | Edge  | Inter- rior |   |                   |                    |                  |                |                     |                  |                  |
| JUNCTION        | 360       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| PENNSYLVNIN     | 30        | 0           | 0                | 0             | 30   | 0                 | 33.3  | 0.0         | 0 | 1150              | 7                  | 16               | 50             | 35                  | 8                |                  |
| WALTERSBURG     | 290       | 220         | 0                | 0             | 70   | 0                 | 80.0  | 0.0         | 0 | 1750              | 14                 | 19               | 100            | 37                  | 5                |                  |
| HAROLNSBURG     | 10        | 0           | 0                | 0             | 10   | 0                 | 0.0   | 0.0         | 0 | 2120              | 10                 | 17               | 50             | 34                  | 8                |                  |
| CYPRESS         | 20        | 0           | 0                | 10            | 10   | 0                 | 100.0 | 0.0         | 0 | 2275              | 12                 | 18               | 150            | 37                  | 5                |                  |
| MCCLOSKY        | 10        | 0           | 0                | 0             | 10   | 0                 | 100.0 | 0.0         | 0 | 2730              | 9                  | 15               | 30             | 37                  | 6                |                  |
| TOTALS & AVE    | 360       | 220         | 0                | 10            | 130  | 0                 | 66.2  | 0.0         | 0 | 1777              | 13                 | 19               | 98             | 37                  | 5                |                  |
| JUNCTION E      | 20        |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| WALTERSBURG     | 20        | 0           | 0                | 0             | 20   | 0                 | 100.0 | 0.0         | 0 | 1750              | 14                 | 19               | 100            | 37                  | 5                |                  |
| TOTALS & AVE    | 20        | 0           | 0                | 0             | 20   | 0                 | 100.0 | 0.0         | 0 | 1750              | 14                 | 19               | 100            | 37                  | 5                |                  |
| JUNCTION N      | 190       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| PENNSYLVNIN     | 100       | 0           | 0                | 0             | 100  | 0                 | 50.0  | 0.0         | 0 | 1550              | 16                 | 16               | 50             | 36                  | 7                |                  |
| CYPRESS         | 30        | 0           | 0                | 0             | 30   | 0                 | 33.3  | 0.0         | 0 | 2450              | 10                 | 18               | 100            | 37                  | 6                |                  |
| AUX VASES       | 40        | 0           | 0                | 0             | 40   | 0                 | 100.0 | 0.0         | 0 | 2725              | 5                  | 16               | 30             | 36                  | 6                |                  |
| SPAR MTN        | 40        | 0           | 0                | 0             | 40   | 0                 | 50.0  | 0.0         | 0 | 2860              | 6                  | 15               | 40             | 37                  | 6                |                  |
| TOTALS & AVE    | 210       | 0           | 0                | 0             | 210  | 0                 | 57.1  | 0.0         | 0 | 1900              | 11                 | 16               | 54             | 36                  | 7                |                  |
| JUNCTION CITY C | 160       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| PENNSYLVNIN     | 160       | 0           | 0                | 0             | 160  | 0                 | 0.0   | 0.0         | 1 | 600               | 8                  | 18               | 100            | 32                  | 20               |                  |
| TOTALS & AVE    | 160       | 0           | 0                | 0             | 160  | 0                 | 0.0   | 0.0         | 1 | 600               | 8                  | 18               | 100            | 32                  | 20               |                  |
| KEENSBURG E     | 40        |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| STE GEN         | 40        | 0           | 0                | 0             | 40   | 0                 | 0.0   | 0.0         | 0 | 2700              | 16                 | 17               | 150            | 38                  | 5                |                  |
| TOTALS & AVE    | 40        | 0           | 0                | 0             | 40   | 0                 | 0.0   | 0.0         | 0 | 2700              | 16                 | 17               | 150            | 38                  | 5                |                  |
| KEENSBURG S     | 280       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| PENNSYLVNIN     | 130       | 70          | 0                | 0             | 60   | 0                 | 66.7  | 0.0         | 0 | 1200              | 10                 | 15               | 50             | 33                  | 13               |                  |
| CYPRESS         | 130       | 100         | 10               | 0             | 20   | 0                 | 0.0   | 0.0         | 0 | 2400              | 9                  | 18               | 100            | 36                  | 10               |                  |
| OHARA           | 20        | 0           | 0                | 10            | 10   | 0                 | 100.0 | 0.0         | 0 | 2715              | 10                 | 17               | 150            | 38                  | 5                |                  |
| TOTALS & AVE    | 280       | 170         | 10               | 10            | 90   | 0                 | 55.6  | 0.0         | 0 | 1839              | 10                 | 16               | 79             | 35                  | 11               |                  |
| KEENVILLE       | 710       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| AUX VASES       | 340       | 0           | 180              | 30            | 130  | 0                 | 9.1   | 0.0         | 0 | 2960              | 20                 | 20               | 155            | 37                  | 6                |                  |
| STE GEN         | 440       | 0           | 240              | 10            | 190  | 0                 | 42.9  | 0.0         | 0 | 3050              | 11                 | 17               | 100            | 37                  | 5                |                  |
| TOTALS & AVE    | 780       | 0           | 420              | 40            | 320  | 0                 | 29.1  | 0.0         | 0 | 2997              | 15                 | 19               | 132            | 37                  | 6                |                  |
| KEENVILLE E     | 90        |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| STE GEN         | 80        | 0           | 0                | 0             | 80   | 0                 | 80.0  | 0.0         | 0 | 3140              | 10                 | 17               | 150            | 37                  | 6                |                  |
| ST LOUIS        | 10        | 0           | 0                | 0             | 10   | 0                 | 100.0 | 0.0         | 0 | 3190              | 10                 | 12               | 20             | 39                  | 4                |                  |
| TOTALS & AVE    | 90        | 0           | 0                | 0             | 90   | 0                 | 82.2  | 0.0         | 0 | 3146              | 10                 | 16               | 136            | 37                  | 6                |                  |
| KELL            | 50        |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| MCCLOSKY        | 50        | 0           | 0                | 0             | 50   | 0                 | 0.0   | 0.0         | 1 | 2350              | 6                  | 17               | 200            | 37                  | 6                |                  |
| TOTALS & AVE    | 50        | 0           | 0                | 0             | 50   | 0                 | 0.0   | 0.0         | 1 | 2350              | 6                  | 17               | 200            | 37                  | 6                |                  |
| KELL W          | 10        |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| MCCLOSKY        | 10        | 0           | 0                | 0             | 10   | 0                 | 0.0   | 0.0         | 0 | 2350              | 6                  | 17               | 400            | 38                  | 5                |                  |
| TOTALS & AVE    | 10        | 0           | 0                | 0             | 10   | 0                 | 0.0   | 0.0         | 0 | 2350              | 6                  | 17               | 400            | 38                  | 5                |                  |
| KELLERVILLE     | 550       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| SILURIAN        | 550       | 0           | 0                | 0             | 450  | 100               | 67.6  | 100.0       | 0 | 623               | 5                  | 13               | 40             | 37                  | 6                |                  |
| TOTALS & AVE    | 550       | 0           | 0                | 0             | 450  | 100               | 67.6  | 100.0       | 0 | 623               | 5                  | 13               | 40             | 37                  | 6                |                  |
| KENNER          | 1190      |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| TAR SPRINGS     | 10        | 0           | 0                | 10            | 0    | 0                 | 0.0   | 0.0         | 0 | 2200              | 7                  | 15               | 100            | 37                  | 6                |                  |
| BENOIST         | 690       | 450         | 180              | 30            | 30   | 0                 | 100.0 | 0.0         | 0 | 2700              | 13                 | 15               | 57             | 37                  | 6                |                  |
| RENAULT         | 210       | 20          | 0                | 60            | 120  | 10                | 90.9  | 100.0       | 0 | 2760              | 10                 | 16               | 51             | 37                  | 6                |                  |
| AUX VASES       | 820       | 50          | 560              | 0             | 160  | 50                | 91.7  | 100.0       | 1 | 2822              | 22                 | 17               | 75             | 38                  | 6                |                  |
| STE GEN         | 80        | 0           | 0                | 30            | 50   | 0                 | 60.0  | 0.0         | 0 | 2875              | 9                  | 16               | 100            | 37                  | 6                |                  |
| ST LOUIS        | 10        | 0           | 0                | 0             | 10   | 0                 | 100.0 | 0.0         | 0 | 2980              | 4                  | 12               | 20             | 38                  | 5                |                  |
| CARPER          | 10        | 0           | 0                | 0             | 10   | 0                 | 0.0   | 0.0         | 0 | 4220              | 10                 | 11               | 20             | 39                  | 4                |                  |
| DEVONIAN        | 10        | 0           | 0                | 10            | 0    | 0                 | 0.0   | 0.0         | 0 | 4425              | 55                 | 10               | 10             | 39                  | 5                |                  |
| TOTALS & AVE    | 1840      | 520         | 740              | 140           | 380  | 60                | 85.7  | 100.0       | 1 | 2815              | 17                 | 16               | 67             | 38                  | 6                |                  |
| KENNER N        | 390       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| BENOIST         | 390       | 0           | 50               | 0             | 230  | 110               | 6.3   | 0.0         | 1 | 2750              | 10                 | 17               | 40             | 37                  | 6                |                  |
| MCCLOSKY        | 80        | 0           | 0                | 20            | 50   | 10                | 0.0   | 0.0         | 0 | 2970              | 6                  | 17               | 100            | 37                  | 6                |                  |
| TOTALS & AVE    | 470       | 0           | 50               | 20            | 280  | 120               | 5.1   | 0.0         | 1 | 2774              | 9                  | 17               | 47             | 37                  | 6                |                  |
| KENNER S        | 30        |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| BENOIST         | 20        | 0           | 0                | 0             | 20   | 0                 | 100.0 | 0.0         | 0 | 2730              | 5                  | 17               | 50             | 37                  | 6                |                  |
| MCCLOSKY        | 30        | 0           | 0                | 0             | 10   | 0                 | 50.0  | 0.0         | 0 | 2870              | 10                 | 17               | 100            | 37                  | 6                |                  |
| TOTALS & AVE    | 50        | 0           | 0                | 0             | 30   | 0                 | 83.3  | 0.0         | 0 | 2835              | 8                  | 17               | 88             | 37                  | 6                |                  |
| KENNER W        | 410       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| CYPRESS         | 350       | 350         | 0                | 0             | 0    | 0                 | 0.0   | 0.0         | 0 | 2600              | 20                 | 18               | 125            | 37                  | 6                |                  |
| BENOIST         | 230       | 230         | 0                | 0             | 0    | 0                 | 0.0   | 0.0         | 0 | 2700              | 10                 | 17               | 50             | 38                  | 6                |                  |
| RENAULT         | 10        | 0           | 0                | 0             | 10   | 0                 | 0.0   | 0.0         | 0 | 2800              | 10                 | 16               | 60             | 37                  | 6                |                  |
| AUX VASES       | 110       | 80          | 0                | 0             | 30   | 0                 | 50.0  | 0.0         | 0 | 2800              | 16                 | 17               | 70             | 38                  | 6                |                  |
| MCCLOSKY        | 20        | 0           | 0                | 0             | 20   | 0                 | 50.0  | 0.0         | 0 | 2870              | 4                  | 16               | 100            | 38                  | 5                |                  |
| TOTALS & AVE    | 720       | 660         | 0                | 0             | 60   | 0                 | 41.7  | 0.0         | 0 | 2655              | 16                 | 18               | 100            | 37                  | 6                |                  |
| KEYESPORT       | 180       |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| BENOIST         | 180       | 0           | 0                | 0             | 140  | 40                | 92.3  | 100.0       | 2 | 1180              | 8                  | 17               | 50             | 35                  | 8                |                  |
| TOTALS & AVE    | 180       | 0           | 0                | 0             | 140  | 40                | 92.3  | 100.0       | 2 | 1180              | 8                  | 17               | 50             | 35                  | 8                |                  |
| KINCAID C       | 2620      |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| HIBBARO         | 2620      | 0           | 0                | 0             | 1050 | 1570              | 93.0  | 98.1        | 0 | 1800              | 19                 | 12               | 10             | 38                  | 6                |                  |
| SILURIAN        | 10        | 0           | 0                | 0             | 10   | 0                 | 100.0 | 0.0         | 0 | 1875              | 7                  | 10               | 20             | 38                  | 5                |                  |
| TOTALS & AVE    | 2630      | 0           | 0                | 0             | 1060 | 1570              | 93.1  | 98.1        | 0 | 1800              | 19                 | 12               | 10             | 38                  | 6                |                  |
| KING            | 1430      |             |                  |               |      |                   |       |             |   |                   |                    |                  |                |                     |                  |                  |
| RENAULT         | 10        | 0           | 0                | 0             | 10   | 0                 | 100.0 | 0.0         | 0 | 2720              | 10                 | 17               | 50             | 39                  | 5                |                  |
| AUX VASES       | 1380      | 340         | 0                | 400           | 510  | 150               | 5.7   | 92.3        | 0 | 2725              | 15                 | 18               | 99             | 39                  | 5                |                  |
| STE GEN         | 320       | 0           | 0                | 120           | 200  | 0                 | 75.0  | 0.0         | 0 | 2768              | 9                  | 16               | 69             | 38                  | 5                |                  |
| TOTALS & AVE    | 1710      | 340         | 0                | 520           | 720  | 150               | 26.3  | 92.3        | 0 | 2730              | 14                 | 18               | 95             | 39                  | 5                |                  |

| Field name       |           | Areal acres | Waterflood acres |              |       | Remaining primary |       |           |   | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|------------------|-----------|-------------|------------------|--------------|-------|-------------------|-------|-----------|---|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                  |           |             |                  |              |       | Acres             |       | % Active  |   |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name         | Pay acres | Act-tive    | Aban-doned       | Unde-veloped | Edge  | Inter-ior         | Edge  | Inter-ior |   |                   |                    |                 |               |                    |                 |                 |
| KINMUNOY         | 80        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| BENOIST          | 20        | 0           | 0                | 0            | 20    | 0                 | 0.0   | 0.0       | 0 | 1915              | 5                  | 16              | 75            | 34                 | 9               |                 |
| SALEM            | 10        | 0           | 0                | 0            | 10    | 0                 | 0.0   | 0.0       | 0 | 2430              | 7                  | 13              | 30            | 36                 | 7               |                 |
| CARPER           | 50        | 0           | 0                | 0            | 50    | 0                 | 60.0  | 0.0       | 0 | 3382              | 17                 | 13              | 16            | 37                 | 7               |                 |
| TOTALS & AVE     | 80        | 0           | 0                | 0            | 80    | 0                 | 37.5  | 0.0       | 0 | 3173              | 13                 | 13              | 23            | 37                 | 7               |                 |
| KINMUNOY N       | 10        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| BENOIST          | 10        | 0           | 0                | 0            | 10    | 0                 | 0.0   | 0.0       | 0 | 2040              | 10                 | 16              | 75            | 34                 | 9               |                 |
| TOTALS & AVE     | 10        | 0           | 0                | 0            | 10    | 0                 | 0.0   | 0.0       | 0 | 2040              | 10                 | 16              | 75            | 34                 | 9               |                 |
| LACLEOE          | 40        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| BENOIST          | 40        | 0           | 0                | 0            | 40    | 0                 | 25.0  | 0.0       | 0 | 2335              | 15                 | 17              | 75            | 36                 | 7               |                 |
| TOTALS & AVE     | 40        | 0           | 0                | 0            | 40    | 0                 | 25.0  | 0.0       | 0 | 2335              | 15                 | 17              | 75            | 36                 | 7               |                 |
| LAKEWOOD         | 120       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| BENOIST          | 70        | 0           | 0                | 0            | 70    | 0                 | 42.9  | 0.0       | 0 | 1700              | 8                  | 18              | 50            | 30                 | 29              |                 |
| AUX VASES        | 50        | 0           | 0                | 0            | 50    | 0                 | 0.0   | 0.0       | 0 | 1720              | 8                  | 17              | 50            | 32                 | 10              |                 |
| TOTALS & AVE     | 120       | 0           | 0                | 0            | 120   | 0                 | 25.0  | 0.0       | 0 | 1708              | 8                  | 18              | 50            | 31                 | 21              |                 |
| LANCASTER        | 1490      |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS      | 10        | 0           | 0                | 0            | 10    | 0                 | 0.0   | 0.0       | 0 | 2050              | 10                 | 18              | 100           | 31                 | 15              |                 |
| BETHEL           | 980       | 680         | 0                | 0            | 250   | 50                | 80.0  | 80.0      | 1 | 2500              | 19                 | 17              | 50            | 36                 | 7               |                 |
| STE GEN          | 520       | 0           | 0                | 30           | 380   | 110               | 60.7  | 20.0      | 1 | 2650              | 7                  | 17              | 200           | 40                 | 4               |                 |
| TOTALS & AVE     | 1510      | 680         | 0                | 30           | 640   | 160               | 67.3  | 38.8      | 2 | 2522              | 15                 | 17              | 75            | 37                 | 7               |                 |
| LANCASTER CENTRA | 230       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| STE GEN          | 230       | 0           | 0                | 0            | 170   | 60                | 0.0   | 33.3      | 0 | 2750              | 12                 | 17              | 100           | 37                 | 5               |                 |
| TOTALS & AVE     | 230       | 0           | 0                | 0            | 170   | 60                | 0.0   | 33.3      | 0 | 2750              | 12                 | 17              | 100           | 37                 | 5               |                 |
| LANCASTER E      | 60        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 50        | 0           | 0                | 0            | 50    | 0                 | 75.0  | 0.0       | 0 | 1750              | 10                 | 18              | 100           | 31                 | 21              |                 |
| SPAR MTN         | 10        | 0           | 0                | 0            | 10    | 0                 | 100.0 | 0.0       | 0 | 2660              | 6                  | 17              | 150           | 39                 | 4               |                 |
| TOTALS & AVE     | 60        | 0           | 0                | 0            | 60    | 0                 | 79.2  | 0.0       | 0 | 1848              | 9                  | 18              | 105           | 32                 | 19              |                 |
| LANCASTER S      | 290       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| BETHEL           | 270       | 40          | 100              | 0            | 120   | 10                | 50.0  | 0.0       | 0 | 2500              | 10                 | 17              | 50            | 36                 | 7               |                 |
| STE GEN          | 30        | 0           | 0                | 0            | 30    | 0                 | 66.7  | 0.0       | 0 | 2670              | 9                  | 16              | 100           | 39                 | 4               |                 |
| TOTALS & AVE     | 300       | 40          | 100              | 0            | 150   | 10                | 53.3  | 0.0       | 0 | 2515              | 10                 | 17              | 55            | 36                 | 7               |                 |
| LANGEWISCH-KUEST | 110       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 10        | 0           | 0                | 0            | 10    | 0                 | 100.0 | 0.0       | 0 | 800               | 8                  | 18              | 100           | 32                 | 15              |                 |
| CYPRESS          | 100       | 0           | 0                | 0            | 100   | 0                 | 30.0  | 0.0       | 0 | 1600              | 10                 | 18              | 100           | 35                 | 8               |                 |
| TOTALS & AVE     | 110       | 0           | 0                | 0            | 110   | 0                 | 36.4  | 0.0       | 0 | 1541              | 10                 | 18              | 100           | 35                 | 9               |                 |
| LAWRENCE         | 35460     |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 10450     | 5970        | 30               | 2610         | 1140  | 680               | 65.6  | 87.7      | 5 | 826               | 30                 | 19              | 100           | 36                 | 7               |                 |
| TAR SPRINGS      | 20        | 0           | 0                | 10           | 10    | 0                 | 100.0 | 0.0       | 0 | 1400              | 10                 | 19              | 100           | 34                 | 9               |                 |
| HAROLDSBURG      | 20        | 0           | 0                | 10           | 10    | 0                 | 100.0 | 0.0       | 0 | 1570              | 10                 | 15              | 25            | 33                 | 11              |                 |
| GOLCONOA         | 1290      | 710         | 0                | 520          | 60    | 0                 | 100.0 | 0.0       | 0 | 1251              | 10                 | 16              | 50            | 33                 | 12              |                 |
| CYPRESS          | 21730     | 14770       | 320              | 1140         | 3760  | 1610              | 79.1  | 66.9      | 0 | 1356              | 26                 | 18              | 91            | 40                 | 6               |                 |
| PT CK GROUP      | 9130      | 4240        | 1700             | 750          | 1900  | 540               | 58.1  | 57.7      | 0 | 1650              | 20                 | 16              | 41            | 35                 | 8               |                 |
| BENOIST          | 140       | 0           | 0                | 20           | 100   | 20                | 100.0 | 100.0     | 0 | 1700              | 10                 | 12              | 5             | 37                 | 6               |                 |
| AUX VASES        | 660       | 0           | 0                | 90           | 560   | 10                | 68.8  | 100.0     | 0 | 1746              | 8                  | 17              | 48            | 38                 | 6               |                 |
| STE GEN          | 11820     | 2680        | 0                | 5360         | 2780  | 1000              | 51.8  | 90.8      | 0 | 1750              | 11                 | 19              | 288           | 38                 | 5               |                 |
| ST LOUIS         | 190       | 0           | 0                | 130          | 60    | 0                 | 100.0 | 0.0       | 0 | 1660              | 10                 | 10              | 10            | 35                 | 8               |                 |
| SALEM            | 30        | 0           | 0                | 10           | 20    | 0                 | 100.0 | 0.0       | 0 | 1950              | 3                  | 14              | 37            | 36                 | 6               |                 |
| TOTALS & AVE     | 55480     | 28370       | 2050             | 10650        | 10400 | 3860              | 66.5  | 75.7      | 5 | 1307              | 22                 | 18              | 106           | 38                 | 7               |                 |
| LAWRENCE W       | 580       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PT CK GROUP      | 520       | 260         | 0                | 0            | 220   | 40                | 47.1  | 100.0     | 0 | 2050              | 10                 | 17              | 36            | 35                 | 8               |                 |
| AUX VASES        | 20        | 0           | 0                | 0            | 20    | 0                 | 100.0 | 0.0       | 0 | 2100              | 8                  | 16              | 50            | 36                 | 7               |                 |
| STE GEN          | 40        | 0           | 0                | 10           | 30    | 0                 | 33.3  | 0.0       | 0 | 2190              | 9                  | 18              | 200           | 40                 | 3               |                 |
| TOTALS & AVE     | 580       | 260         | 0                | 10           | 270   | 40                | 49.5  | 100.0     | 0 | 2060              | 10                 | 17              | 47            | 35                 | 8               |                 |
| LEXINGTON        | 140       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS          | 10        | 0           | 0                | 0            | 10    | 0                 | 100.0 | 0.0       | 0 | 2600              | 10                 | 17              | 100           | 32                 | 15              |                 |
| MCCLOSKEY        | 130       | 0           | 0                | 0            | 120   | 10                | 10.0  | 0.0       | 0 | 2970              | 8                  | 17              | 100           | 38                 | 5               |                 |
| TOTALS & AVE     | 140       | 0           | 0                | 0            | 130   | 10                | 16.9  | 0.0       | 0 | 2938              | 8                  | 17              | 100           | 37                 | 6               |                 |
| LEXINGTON N      | 20        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| STE GEN          | 20        | 0           | 0                | 0            | 20    | 0                 | 0.0   | 0.0       | 0 | 2915              | 4                  | 17              | 100           | 38                 | 5               |                 |
| TOTALS & AVE     | 20        | 0           | 0                | 0            | 20    | 0                 | 0.0   | 0.0       | 0 | 2915              | 4                  | 17              | 100           | 38                 | 5               |                 |
| LILLYVILLE       | 150       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY        | 150       | 90          | 0                | 0            | 60    | 0                 | 100.0 | 0.0       | 0 | 2425              | 10                 | 17              | 200           | 36                 | 6               |                 |
| TOTALS & AVE     | 150       | 90          | 0                | 0            | 60    | 0                 | 100.0 | 0.0       | 0 | 2425              | 10                 | 17              | 200           | 36                 | 6               |                 |
| LIS              | 10        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| SPAR MTN         | 10        | 0           | 0                | 0            | 10    | 0                 | 0.0   | 0.0       | 0 | 3020              | 5                  | 16              | 100           | 37                 | 6               |                 |
| TOTALS & AVE     | 10        | 0           | 0                | 0            | 10    | 0                 | 0.0   | 0.0       | 0 | 3020              | 5                  | 16              | 100           | 37                 | 6               |                 |
| LITCHFIELD       | 150       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 150       | 0           | 0                | 0            | 150   | 0                 | 0.0   | 0.0       | 0 | 660               | 17                 | 18              | 100           | 23                 | 99              |                 |
| TOTALS & AVE     | 150       | 0           | 0                | 0            | 150   | 0                 | 0.0   | 0.0       | 0 | 660               | 17                 | 18              | 100           | 23                 | 99              |                 |
| LITCHFIELD S     | 40        |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 40        | 0           | 0                | 0            | 40    | 0                 | 100.0 | 0.0       | 0 | 610               | 3                  | 18              | 100           | 23                 | 99              |                 |
| TOTALS & AVE     | 40        | 0           | 0                | 0            | 40    | 0                 | 100.0 | 0.0       | 0 | 610               | 3                  | 18              | 100           | 23                 | 99              |                 |
| LIVINGSTON       | 420       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 420       | 130         | 80               | 0            | 210   | 0                 | 85.7  | 0.0       | 4 | 530               | 15                 | 18              | 100           | 35                 | 8               |                 |
| TOTALS & AVE     | 420       | 130         | 80               | 0            | 210   | 0                 | 85.7  | 0.0       | 4 | 530               | 15                 | 18              | 100           | 35                 | 8               |                 |
| LIVINGSTON S     | 570       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN      | 570       | 210         | 0                | 0            | 330   | 30                | 55.6  | 100.0     | 0 | 530               | 10                 | 17              | 100           | 35                 | 9               |                 |
| TOTALS & AVE     | 570       | 210         | 0                | 0            | 330   | 30                | 55.6  | 100.0     | 0 | 530               | 10                 | 17              | 100           | 35                 | 9               |                 |
| LOCUST GROVE     | 130       |             |                  |              |       |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES        | 90        | 20          | 0                | 0            | 70    | 0                 | 33.3  | 0.0       | 2 | 3200              | 10                 | 18              | 50            | 36                 | 7               |                 |
| STE GEN          | 40        | 0           | 0                | 0            | 40    | 0                 | 50.0  | 0.0       | 0 | 3240              | 7                  | 16              | 80            | 37                 | 6               |                 |
| TOTALS & AVE     | 130       | 20          | 0                | 0            | 110   | 0                 | 39.4  | 0.0       | 2 | 3209              | 9                  | 18              | 57            | 36                 | 7               |                 |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name     |              | Areal<br>acrea | Waterflood<br>acrea |                  |      | Remaining primary |       |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|----------------|--------------|----------------|---------------------|------------------|------|-------------------|-------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                |              |                |                     |                  |      | Acres             |       | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name       | Pay<br>acrea | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge  | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| LOCUST GROVE S |              | 160            |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 160            | 0                   | 0                | 0    | 160               | 0     | 11.1           | 0.0   | 0                       | 3250               | 7                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 160            | 0                   | 0                | 0    | 160               | 0     | 11.1           | 0.0   | 0                       | 3250               | 7                      | 16                   | 100                       | 38                     | 5                      |
| LOGAN          |              | 20             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 20             | 0                   | 0                | 0    | 20                | 0     | 100.0          | 0.0   | 0                       | 3028               | 12                     | 17                   | 100                       | 34                     | 10                     |
| TOTALS & AVE   |              | 20             | 0                   | 0                | 0    | 20                | 0     | 100.0          | 0.0   | 0                       | 3028               | 12                     | 17                   | 100                       | 34                     | 10                     |
| LONG BRANCH    |              | 70             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| PALESTINE      |              | 20             | 0                   | 0                | 0    | 20                | 0     | 100.0          | 0.0   | 0                       | 2075               | 9                      | 18                   | 200                       | 9                      | 7                      |
| CYPRESS        |              | 20             | 0                   | 0                | 0    | 20                | 0     | 50.0           | 0.0   | 0                       | 2745               | 14                     | 18                   | 70                        | 37                     | 7                      |
| AUX VASES      |              | 40             | 0                   | 0                | 0    | 40                | 0     | 25.0           | 0.0   | 0                       | 3090               | 10                     | 19                   | 75                        | 37                     | 5                      |
| MCCLOSKEY      |              | 20             | 0                   | 0                | 0    | 20                | 0     | 50.0           | 0.0   | 0                       | 3190               | 4                      | 15                   | 100                       | 37                     | 6                      |
| TOTALS & AVE   |              | 100            | 0                   | 0                | 0    | 100               | 0     | 50.0           | 0.0   | 0                       | 2801               | 9                      | 18                   | 100                       | 32                     | 6                      |
| LONG BRANCH S  |              | 10             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 10             | 0                   | 0                | 0    | 10                | 0     | 100.0          | 0.0   | 0                       | 2660               | 6                      | 18                   | 70                        | 37                     | 7                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0     | 100.0          | 0.0   | 0                       | 2660               | 6                      | 18                   | 70                        | 37                     | 7                      |
| LOUOEN         |              | 24470          |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 21380          | 19120               | 440              | 0    | 1470              | 350   | 79.0           | 88.6  | 1                       | 1501               | 20                     | 20                   | 99                        | 36                     | 7                      |
| BETHEL         |              | 8660           | 8500                | 0                | 80   | 80                | 0     | 87.5           | 0.0   | 0                       | 1540               | 20                     | 18                   | 100                       | 38                     | 5                      |
| RENOIST        |              | 6790           | 6730                | 0                | 50   | 10                | 0     | 100.0          | 0.0   | 0                       | 1550               | 10                     | 18                   | 100                       | 38                     | 5                      |
| AUX VASES      |              | 540            | 540                 | 0                | 0    | 0                 | 0     | 0.0            | 0.0   | 0                       | 1660               | 15                     | 18                   | 100                       | 37                     | 6                      |
| MCCLOSKEY      |              | 10             | 0                   | 0                | 0    | 10                | 0     | 100.0          | 0.0   | 0                       | 1785               | 4                      | 17                   | 150                       | 37                     | 6                      |
| CARPER         |              | 20             | 0                   | 0                | 20   | 0                 | 0     | 0.0            | 0.0   | 0                       | 2830               | 9                      | 12                   | 20                        | 36                     | 8                      |
| GENEVA         |              | 2600           | 0                   | 2600             | 0    | 0                 | 0     | 0.0            | 0.0   | 0                       | 3100               | 18                     | 14                   | 40                        | 28                     | 37                     |
| TRENTON        |              | 20             | 0                   | 0                | 20   | 0                 | 0     | 0.0            | 0.0   | 0                       | 3900               | 12                     | 12                   | 10                        | 29                     | 30                     |
| TOTALS & AVE   |              | 40020          | 34890               | 3040             | 170  | 1570              | 350   | 79.7           | 88.6  | 1                       | 1621               | 18                     | 19                   | 95                        | 36                     | 8                      |
| LOUISVILLE N   |              | 90             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 40             | 0                   | 0                | 0    | 40                | 0     | 0.0            | 0.0   | 0                       | 2750               | 10                     | 17                   | 50                        | 37                     | 8                      |
| SPAR MTN       |              | 90             | 0                   | 0                | 0    | 90                | 0     | 33.3           | 0.0   | 0                       | 2805               | 7                      | 15                   | 200                       | 37                     | 6                      |
| TOTALS & AVE   |              | 130            | 0                   | 0                | 0    | 130               | 0     | 23.1           | 0.0   | 0                       | 2784               | 8                      | 16                   | 142                       | 37                     | 7                      |
| LOUISVILLE S   |              | 20             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 2825               | 7                      | 17                   | 75                        | 38                     | 6                      |
| OHARA          |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 2890               | 2                      | 17                   | 100                       | 36                     | 7                      |
| TOTALS & AVE   |              | 20             | 0                   | 0                | 0    | 20                | 0     | 0.0            | 0.0   | 0                       | 2839               | 5                      | 17                   | 81                        | 38                     | 6                      |
| LYNCHBURG      |              | 60             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 60             | 0                   | 0                | 0    | 60                | 0     | 66.7           | 0.0   | 0                       | 3045               | 8                      | 17                   | 100                       | 38                     | 6                      |
| TOTALS & AVE   |              | 60             | 0                   | 0                | 0    | 60                | 0     | 66.7           | 0.0   | 0                       | 3045               | 8                      | 17                   | 100                       | 38                     | 6                      |
| MCKINLEY       |              | 250            |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| RENOIST        |              | 180            | 40                  | 0                | 0    | 120               | 20    | 66.7           | 100.0 | 1                       | 1050               | 5                      | 18                   | 200                       | 41                     | 3                      |
| SILURIAN       |              | 190            | 0                   | 0                | 40   | 120               | 30    | 70.0           | 100.0 | 1                       | 2240               | 4                      | 12                   | 50                        | 40                     | 3                      |
| TOTALS & AVE   |              | 370            | 40                  | 0                | 40   | 240               | 50    | 68.3           | 100.0 | 2                       | 1595               | 4                      | 15                   | 131                       | 41                     | 3                      |
| MACEDONIA      |              | 10             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| ULLIN          |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 4100               | 12                     | 10                   | 10                        | 37                     | 7                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 4100               | 12                     | 10                   | 10                        | 37                     | 7                      |
| MAIN C         |              | 61450          |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN    |              | 59120          | 21050               | 6090             | 200  | 12170             | 19570 | 37.5           | 56.7  | 19                      | 879                | 25                     | 19                   | 100                       | 36                     | 6                      |
| CYPRESS        |              | 650            | 250                 | 0                | 0    | 320               | 80    | 68.2           | 85.7  | 0                       | 1498               | 15                     | 18                   | 60                        | 34                     | 9                      |
| PT CK GROUP    |              | 4330           | 740                 | 70               | 2070 | 860               | 590   | 61.9           | 38.6  | 0                       | 1330               | 10                     | 15                   | 30                        | 36                     | 7                      |
| AUX VASES      |              | 1430           | 0                   | 0                | 90   | 1200              | 140   | 84.1           | 84.6  | 0                       | 1430               | 14                     | 12                   | 18                        | 35                     | 8                      |
| STE GFN        |              | 140            | 0                   | 0                | 60   | 80                | 0     | 75.0           | 0.0   | 0                       | 1508               | 8                      | 16                   | 232                       | 35                     | 8                      |
| SALEM          |              | 290            | 0                   | 0                | 50   | 210               | 30    | 100.0          | 100.0 | 0                       | 1790               | 5                      | 16                   | 40                        | 37                     | 5                      |
| DEVONIAN       |              | 50             | 0                   | 0                | 0    | 50                | 0     | 100.0          | 0.0   | 0                       | 2800               | 11                     | 12                   | 20                        | 37                     | 7                      |
| TOTALS & AVE   |              | 66010          | 22040               | 6160             | 2470 | 14890             | 20410 | 44.6           | 56.6  | 19                      | 905                | 24                     | 19                   | 97                        | 36                     | 6                      |
| MAPLE GROVE C  |              | 2030           |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 400            | 0                   | 100              | 50   | 240               | 10    | 46.7           | 0.0   | 0                       | 3150               | 15                     | 20                   | 50                        | 38                     | 5                      |
| STE GEN        |              | 1650           | 270                 | 860              | 60   | 380               | 80    | 10.0           | 0.0   | 1                       | 3230               | 7                      | 14                   | 100                       | 37                     | 6                      |
| SALEM          |              | 10             | 0                   | 0                | 0    | 10                | 0     | 100.0          | 0.0   | 0                       | 3660               | 4                      | 12                   | 30                        | 39                     | 4                      |
| TOTALS & AVE   |              | 2060           | 270                 | 960              | 110  | 630               | 90    | 25.4           | 0.0   | 1                       | 3204               | 9                      | 16                   | 83                        | 37                     | 6                      |
| MAPLE GROVE S  |              | 10             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 3250               | 10                     | 15                   | 50                        | 38                     | 5                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 3250               | 10                     | 15                   | 50                        | 38                     | 5                      |
| MARCOE         |              | 20             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY      |              | 20             | 0                   | 0                | 0    | 20                | 0     | 0.0            | 0.0   | 0                       | 2750               | 15                     | 17                   | 100                       | 25                     | 30                     |
| TOTALS & AVE   |              | 20             | 0                   | 0                | 0    | 20                | 0     | 0.0            | 0.0   | 0                       | 2750               | 15                     | 17                   | 100                       | 25                     | 30                     |
| MARINE         |              | 2440           |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEV-SIL        |              | 2440           | 0                   | 0                | 0    | 1070              | 1370  | 63.1           | 100.0 | 1                       | 1700               | 20                     | 18                   | 100                       | 35                     | 8                      |
| TOTALS & AVE   |              | 2440           | 0                   | 0                | 0    | 1070              | 1370  | 63.1           | 100.0 | 1                       | 1700               | 20                     | 18                   | 100                       | 35                     | 8                      |
| MARINE W       |              | 10             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN       |              | 10             | 0                   | 0                | 0    | 10                | 0     | 100.0          | 0.0   | 0                       | 1700               | 20                     | 15                   | 160                       | 35                     | 10                     |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0     | 100.0          | 0.0   | 0                       | 1700               | 20                     | 15                   | 160                       | 35                     | 10                     |
| MARION         |              | 10             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES      |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 2385               | 5                      | 15                   | 45                        | 40                     | 4                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 2385               | 5                      | 15                   | 45                        | 40                     | 4                      |
| MARION E       |              | 10             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| BETHEL         |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 2300               | 8                      | 16                   | 50                        | 37                     | 6                      |
| TOTALS & AVE   |              | 10             | 0                   | 0                | 0    | 10                | 0     | 0.0            | 0.0   | 0                       | 2300               | 8                      | 16                   | 50                        | 37                     | 6                      |
| MARISSA W      |              | 30             |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS        |              | 30             | 0                   | 0                | 0    | 30                | 0     | 33.3           | 0.0   | 0                       | 215                | 34                     | 15                   | 50                        | 25                     | 81                     |
| TOTALS & AVE   |              | 30             | 0                   | 0                | 0    | 30                | 0     | 33.3           | 0.0   | 0                       | 215                | 34                     | 15                   | 50                        | 25                     | 81                     |
| MARKHAM CITY   |              | 340            |                     |                  |      |                   |       |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN        |              | 340            | 0                   | 60               | 0    | 270               | 10    | 21.4           | 100.0 | 1                       | 3070               | 10                     | 17                   | 100                       | 38                     | 5                      |
| TOTALS & AVE   |              | 340            | 0                   | 60               | 0    | 270               | 10    | 21.4           | 100.0 | 1                       | 3070               | 10                     | 17                   | 100                       | 38                     | 5                      |



| Field name     |          | Areal acres | Waterflood acres |            |              | Remaining primary |           |          |           | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|----------------|----------|-------------|------------------|------------|--------------|-------------------|-----------|----------|-----------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                |          |             |                  |            |              | Acres             |           | % Active |           |                   | Depth (ft)         | Thick-ness (ft) | Poroa-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
|                | Pay name | Pay acres   | Act-tive         | Aban-doned | Unde-veloped | Edge              | Inter-ior | Edge     | Inter-ior |                   |                    |                 |               |                    |                 |                 |
| MARKHAM CITY N |          | 320         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| AUX VASES      |          | 120         | 0                | 0          | 0            | 120               | 0         | 88.9     | 0.0       | 1                 | 2950               | 9               | 19            | 200                | 38              | 8               |
| MCCLOSKEY      |          | 320         | 0                | 0          | 0            | 230               | 80        | 53.3     | 100.0     | 0                 | 3075               | 8               | 17            | 150                | 37              | 6               |
| TOTALS & AVE   |          | 440         | 0                | 0          | 0            | 350               | 80        | 65.5     | 100.0     | 1                 | 3038               | 8               | 18            | 165                | 37              | 7               |
| MARKHAM CITY W |          | 490         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| AUX VASES      |          | 310         | 0                | 0          | 260          | 50                | 0         | 66.7     | 0.0       | 0                 | 2950               | 7               | 19            | 200                | 39              | 5               |
| MCCLOSKEY      |          | 310         | 70               | 210        | 0            | 30                | 0         | 50.0     | 0.0       | 0                 | 3035               | 7               | 17            | 200                | 37              | 6               |
| TOTALS & AVE   |          | 620         | 70               | 210        | 260          | 80                | 0         | 60.4     | 0.0       | 0                 | 2993               | 7               | 18            | 200                | 38              | 6               |
| MARTINSVILLE   |          | 2580        |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    |          | 2280        | 310              | 70         | 0            | 1090              | 810       | 5.9      | 25.0      | 0                 | 500                | 22              | 19            | 55                 | 32              | 14              |
| MISSISSIPPN    |          | 50          | 0                | 0          | 0            | 50                | 0         | 80.0     | 0.0       | 0                 | 500                | 8               | 12            | 30                 | 34              | 9               |
| CARPER         |          | 1040        | 0                | 80         | 0            | 520               | 440       | 66.7     | 81.3      | 1                 | 1348               | 40              | 15            | 9                  | 37              | 6               |
| DEVONIAN       |          | 700         | 0                | 0          | 0            | 350               | 350       | 81.8     | 100.0     | 0                 | 1550               | 8               | 12            | 10                 | 38              | 6               |
| TRENTON        |          | 50          | 0                | 0          | 0            | 30                | 10        | 100.0    | 100.0     | 0                 | 2700               | 99              | 10            | 5                  | 40              | 5               |
| TOTALS & AVE   |          | 4120        | 310              | 150        | 0            | 2040              | 1610      | 37.6     | 57.1      | 1                 | 1007               | 25              | 17            | 31                 | 35              | 10              |
| MASON N        |          | 200         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| BENOIST        |          | 140         | 140              | 0          | 0            | 0                 | 0         | 0.0      | 0.0       | 0                 | 2280               | 11              | 16            | 24                 | 38              | 5               |
| AUX VASES      |          | 30          | 30               | 0          | 0            | 0                 | 0         | 0.0      | 0.0       | 0                 | 2350               | 17              | 17            | 80                 | 36              | 8               |
| STE GEN        |          | 80          | 0                | 0          | 20           | 60                | 0         | 0.0      | 0.0       | 0                 | 2400               | 19              | 16            | 150                | 37              | 6               |
| TOTALS & AVE   |          | 250         | 170              | 0          | 20           | 60                | 0         | 0.0      | 0.0       | 0                 | 2341               | 14              | 16            | 86                 | 37              | 6               |
| MASSILON       |          | 70          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| OHARA          |          | 70          | 0                | 0          | 0            | 60                | 10        | 0.0      | 0.0       | 0                 | 3250               | 6               | 17            | 100                | 37              | 6               |
| TOTALS & AVE   |          | 70          | 0                | 0          | 0            | 60                | 10        | 0.0      | 0.0       | 0                 | 3250               | 6               | 17            | 100                | 37              | 6               |
| MASSILON S     |          | 10          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| OHARA          |          | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 3315               | 9               | 16            | 200                | 37              | 6               |
| TOTALS & AVE   |          | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 3315               | 9               | 16            | 200                | 37              | 6               |
| MATTOON        |          | 790         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| CYPRESS        |          | 3170        | 1970             | 180        | 30           | 770               | 200       | 88.9     | 93.8      | 0                 | 1800               | 13              | 18            | 60                 | 39              | 5               |
| AUX VASES      |          | 500         | 230              | 0          | 220          | 40                | 0         | 100.0    | 0.0       | 0                 | 1910               | 10              | 17            | 50                 | 32              | 6               |
| STE GEN        |          | 4690        | 3090             | 180        | 0            | 1040              | 380       | 74.7     | 78.4      | 6                 | 1950               | 12              | 14            | 100                | 38              | 5               |
| CARPER         |          | 410         | 0                | 0          | 0            | 250               | 160       | 92.3     | 91.7      | 0                 | 2950               | 10              | 12            | 30                 | 39              | 4               |
| TOTALS & AVE   |          | 8770        | 5290             | 360        | 250          | 2100              | 740       | 82.5     | 85.4      | 6                 | 1929               | 12              | 16            | 79                 | 38              | 5               |
| MATTOON N      |          | 160         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| SPAR MTN       |          | 160         | 150              | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 1900               | 14              | 15            | 170                | 40              | 5               |
| TOTALS & AVE   |          | 160         | 150              | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 1900               | 14              | 15            | 170                | 40              | 5               |
| MATTOON S      |          | 50          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| CARPER         |          | 50          | 0                | 0          | 0            | 50                | 0         | 0.0      | 0.0       | 0                 | 3035               | 10              | 12            | 20                 | 38              | 5               |
| TOTALS & AVE   |          | 50          | 0                | 0          | 0            | 50                | 0         | 0.0      | 0.0       | 0                 | 3035               | 10              | 12            | 20                 | 38              | 5               |
| MAUNIE E       |          | 80          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS    |          | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2280               | 8               | 18            | 200                | 35              | 7               |
| AUX VASES      |          | 70          | 0                | 0          | 0            | 70                | 0         | 0.0      | 0.0       | 0                 | 2870               | 20              | 17            | 50                 | 35              | 6               |
| TOTALS & AVE   |          | 80          | 0                | 0          | 0            | 80                | 0         | 12.5     | 0.0       | 0                 | 2838               | 19              | 17            | 58                 | 35              | 6               |
| MAUNIE N C     |          | 2120        |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    |          | 10          | 0                | 0          | 10           | 0                 | 0         | 0.0      | 0.0       | 0                 | 1500               | 20              | 18            | 75                 | 34              | 10              |
| WALTERSBURG    |          | 130         | 110              | 0          | 0            | 20                | 0         | 0.0      | 0.0       | 0                 | 2300               | 12              | 20            | 100                | 37              | 5               |
| TAR SPRINGS    |          | 160         | 50               | 0          | 0            | 110               | 0         | 60.0     | 0.0       | 0                 | 2340               | 15              | 18            | 200                | 35              | 6               |
| HAROLDSBURG    |          | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2565               | 10              | 16            | 50                 | 36              | 7               |
| PT CK GROUP    |          | 480         | 320              | 30         | 60           | 70                | 0         | 57.1     | 0.0       | 0                 | 2800               | 13              | 17            | 50                 | 35              | 6               |
| RENAULT        |          | 10          | 0                | 0          | 10           | 0                 | 0         | 0.0      | 0.0       | 0                 | 2935               | 2               | 14            | 30                 | 36              | 7               |
| AUX VASES      |          | 870         | 100              | 340        | 110          | 310               | 10        | 58.3     | 0.0       | 2                 | 2930               | 13              | 17            | 50                 | 35              | 6               |
| STE GEN        |          | 880         | 130              | 80         | 70           | 520               | 80        | 52.5     | 42.9      | 0                 | 3000               | 8               | 15            | 40                 | 35              | 6               |
| TOTALS & AVE   |          | 2550        | 710              | 450        | 260          | 1040              | 90        | 54.8     | 38.1      | 2                 | 2825               | 11              | 17            | 63                 | 35              | 6               |
| MAUNIE S C     |          | 1720        |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    |          | 170         | 0                | 0          | 90           | 80                | 0         | 87.5     | 0.0       | 0                 | 1330               | 15              | 17            | 50                 | 24              | 67              |
| OEGONIA        |          | 110         | 0                | 0          | 60           | 50                | 0         | 80.0     | 0.0       | 0                 | 1900               | 10              | 18            | 50                 | 35              | 5               |
| PALESTINE      |          | 640         | 0                | 530        | 40           | 70                | 0         | 71.4     | 0.0       | 0                 | 2010               | 17              | 18            | 300                | 35              | 6               |
| WALTERSBURG    |          | 20          | 0                | 0          | 10           | 10                | 0         | 100.0    | 0.0       | 0                 | 2200               | 15              | 20            | 100                | 37              | 5               |
| TAR SPRINGS    |          | 790         | 110              | 430        | 0            | 250               | 0         | 65.0     | 0.0       | 2                 | 2240               | 16              | 18            | 200                | 35              | 6               |
| CYPRESS        |          | 370         | 270              | 0          | 40           | 60                | 0         | 66.7     | 0.0       | 0                 | 2600               | 10              | 16            | 50                 | 36              | 7               |
| BETHEL         |          | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2735               | 8               | 15            | 40                 | 37              | 6               |
| AUX VASES      |          | 120         | 0                | 0          | 100          | 20                | 0         | 50.0     | 0.0       | 0                 | 2850               | 12              | 17            | 50                 | 37              | 7               |
| STE GEN        |          | 40          | 0                | 0          | 20           | 20                | 0         | 50.0     | 0.0       | 0                 | 2875               | 7               | 15            | 70                 | 35              | 6               |
| TOTALS & AVE   |          | 2270        | 380              | 960        | 360          | 570               | 0         | 70.6     | 0.0       | 2                 | 2156               | 15              | 18            | 191                | 34              | 11              |
| MAYBERRY       |          | 120         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY      |          | 120         | 0                | 0          | 0            | 120               | 0         | 28.6     | 0.0       | 0                 | 3350               | 8               | 16            | 100                | 39              | 5               |
| TOTALS & AVE   |          | 120         | 0                | 0          | 0            | 120               | 0         | 28.6     | 0.0       | 0                 | 3350               | 8               | 16            | 100                | 39              | 5               |
| MAYBERRY N     |          | 10          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY      |          | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 3330               | 2               | 16            | 80                 | 39              | 5               |
| TOTALS & AVE   |          | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 3330               | 2               | 16            | 80                 | 39              | 5               |
| MELROSE        |          | 150         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    |          | 150         | 110              | 0          | 30           | 10                | 0         | 100.0    | 0.0       | 0                 | 850                | 10              | 18            | 50                 | 35              | 8               |
| TOTALS & AVE   |          | 150         | 110              | 0          | 30           | 10                | 0         | 100.0    | 0.0       | 0                 | 850                | 10              | 18            | 50                 | 35              | 8               |
| MELROSE S      |          | 20          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    |          | 20          | 0                | 0          | 0            | 20                | 0         | 50.0     | 0.0       | 0                 | 865                | 7               | 18            | 100                | 35              | 8               |
| TOTALS & AVE   |          | 20          | 0                | 0          | 0            | 20                | 0         | 50.0     | 0.0       | 0                 | 865                | 7               | 18            | 100                | 35              | 8               |
| MILETUS        |          | 220         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| BENOIST        |          | 130         | 20               | 0          | 0            | 100               | 10        | 44.4     | 0.0       | 0                 | 2150               | 7               | 16            | 50                 | 35              | 9               |
| AUX VASES      |          | 140         | 0                | 0          | 0            | 120               | 20        | 20.0     | 100.0     | 1                 | 2200               | 7               | 17            | 50                 | 36              | 9               |
| MCCLOSKEY      |          | 50          | 0                | 0          | 0            | 50                | 0         | 33.3     | 0.0       | 0                 | 2350               | 5               | 15            | 50                 | 36              | 7               |
| TOTALS & AVE   |          | 320         | 20               | 0          | 0            | 270               | 30        | 31.5     | 66.7      | 1                 | 2196               | 7               | 16            | 50                 | 36              | 9               |
| MILLERSBURG    |          | 20          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |
| DEVONIAN       |          | 20          | 0                | 0          | 0            | 20                | 0         | 100.0    | 0.0       | 0                 | 2130               | 2               | 18            | 100                | 38              | 6               |
| TOTALS & AVE   |          | 20          | 0                | 0          | 0            | 20                | 0         | 100.0    | 0.0       | 0                 | 2130               | 2               | 18            | 100                | 38              | 6               |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name      |              | Areal<br>acres | Waterflood<br>acres |                  |      | Remaining primary |       |                |    | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|-----------------|--------------|----------------|---------------------|------------------|------|-------------------|-------|----------------|----|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                 |              |                |                     |                  |      | Acres             |       | % Active       |    |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name        | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge  | Inter-<br>rior |    |                         |                    |                        |                      |                           |                        |                        |
| MILL SHOALS     | 3210         |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 2700         | 1730           | 40                  | 0                | 790  | 140               | 61.7  | 63.6           | 4  | 3250                    | 11                 | 18                     | 100                  | 36                        | 7                      |                        |
| STE GEN         | 1000         | 0              | 0                   | 460              | 530  | 10                | 63.4  | 100.0          | 0  | 3320                    | 9                  | 17                     | 192                  | 38                        | 5                      |                        |
| ST LOUIS        | 10           | 0              | 0                   | 10               | 0    | 0                 | 0.0   | 0.0            | 0  | 3550                    | 10                 | 13                     | 35                   | 39                        | 5                      |                        |
| SALEM           | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0  | 3970                    | 4                  | 14                     | 70                   | 38                        | 5                      |                        |
| ULLIN           | 10           | 0              | 0                   | 10               | 0    | 0                 | 0.0   | 0.0            | 0  | 4110                    | 10                 | 14                     | 60                   | 38                        | 5                      |                        |
| TOTALS & AVE    | 3730         | 1730           | 40                  | 480              | 1330 | 150               | 62.7  | 66.1           | 4  | 3270                    | 10                 | 18                     | 121                  | 36                        | 7                      |                        |
| MILLS PRAIRIE   | 10           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| OHARA           | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0  | 2925                    | 5                  | 15                     | 60                   | 37                        | 6                      |                        |
| TOTALS & AVE    | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0  | 2925                    | 5                  | 15                     | 60                   | 37                        | 6                      |                        |
| MILLS PRAIRIE N | 30           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| OHARA           | 30           | 0              | 0                   | 0                | 30   | 0                 | 0.0   | 0.0            | 0  | 2925                    | 5                  | 16                     | 75                   | 37                        | 6                      |                        |
| TOTALS & AVE    | 30           | 0              | 0                   | 0                | 30   | 0                 | 0.0   | 0.0            | 0  | 2925                    | 5                  | 16                     | 75                   | 37                        | 6                      |                        |
| MITCHELLSVILLE  | 20           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| OEGONIA         | 10           | 0              | 0                   | 0                | 10   | 0                 | 0.0   | 0.0            | 0  | 1330                    | 6                  | 16                     | 50                   | 35                        | 6                      |                        |
| WALTERSBURG     | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0  | 1500                    | 6                  | 17                     | 50                   | 38                        | 6                      |                        |
| TOTALS & AVE    | 20           | 0              | 0                   | 0                | 20   | 0                 | 50.0  | 0.0            | 0  | 1415                    | 6                  | 17                     | 50                   | 37                        | 6                      |                        |
| MODE            | 360          |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| BETHEL          | 120          | 120            | 0                   | 0                | 0    | 0                 | 0.0   | 0.0            | 0  | 1680                    | 12                 | 17                     | 50                   | 35                        | 8                      |                        |
| BENOIST         | 360          | 360            | 0                   | 0                | 0    | 0                 | 0.0   | 0.0            | 0  | 1750                    | 8                  | 17                     | 50                   | 34                        | 9                      |                        |
| AUX VASES       | 10           | 10             | 0                   | 0                | 0    | 0                 | 0.0   | 0.0            | 0  | 1770                    | 8                  | 17                     | 50                   | 37                        | 7                      |                        |
| TOTALS & AVE    | 490          | 490            | 0                   | 0                | 0    | 0                 | 0.0   | 0.0            | 0  | 1727                    | 9                  | 17                     | 50                   | 34                        | 9                      |                        |
| MT AUBURN C     | 7050         |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN        | 7050         | 0              | 0                   | 0                | 5640 | 1410              | 53.8  | 68.7           | 11 | 1890                    | 15                 | 12                     | 20                   | 37                        | 6                      |                        |
| TOTALS & AVE    | 7050         | 0              | 0                   | 0                | 5640 | 1410              | 53.8  | 68.7           | 11 | 1890                    | 15                 | 12                     | 20                   | 37                        | 6                      |                        |
| MT CARMEL       | 4370         |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 1050         | 280            | 90                  | 310              | 370  | 0                 | 83.3  | 0.0            | 1  | 1500                    | 15                 | 18                     | 200                  | 36                        | 9                      |                        |
| PALESTINE       | 40           | 0              | 0                   | 30               | 10   | 0                 | 100.0 | 0.0            | 0  | 1580                    | 10                 | 17                     | 50                   | 35                        | 8                      |                        |
| WALTERSBURG     | 30           | 0              | 0                   | 30               | 0    | 0                 | 0.0   | 0.0            | 0  | 1700                    | 10                 | 18                     | 100                  | 36                        | 8                      |                        |
| TAR SPRINGS     | 410          | 120            | 60                  | 170              | 60   | 0                 | 100.0 | 0.0            | 0  | 1700                    | 12                 | 19                     | 200                  | 36                        | 6                      |                        |
| GOLCONOA        | 10           | 0              | 0                   | 10               | 0    | 0                 | 0.0   | 0.0            | 0  | 2020                    | 25                 | 17                     | 50                   | 36                        | 7                      |                        |
| CYPRESS         | 3550         | 1730           | 530                 | 40               | 760  | 490               | 82.8  | 65.3           | 1  | 2001                    | 15                 | 18                     | 51                   | 38                        | 5                      |                        |
| PT CK GROUP     | 130          | 0              | 0                   | 90               | 40   | 0                 | 100.0 | 0.0            | 0  | 2100                    | 16                 | 16                     | 50                   | 35                        | 6                      |                        |
| STE GEN         | 1260         | 50             | 0                   | 620              | 580  | 10                | 59.6  | 0.0            | 0  | 2323                    | 8                  | 17                     | 210                  | 37                        | 7                      |                        |
| SALEM           | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0  | 2696                    | 14                 | 10                     | 40                   | 39                        | 5                      |                        |
| TOTALS & AVE    | 6490         | 2180           | 680                 | 1300             | 1830 | 500               | 76.7  | 64.0           | 2  | 1931                    | 13                 | 18                     | 105                  | 37                        | 6                      |                        |
| MT ERIE N       | 200          |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 110          | 0              | 0                   | 0                | 110  | 0                 | 0.0   | 0.0            | 0  | 3120                    | 15                 | 18                     | 100                  | 40                        | 4                      |                        |
| STE GEN         | 130          | 0              | 0                   | 0                | 130  | 0                 | 0.0   | 0.0            | 0  | 3170                    | 6                  | 16                     | 70                   | 39                        | 4                      |                        |
| TOTALS & AVE    | 240          | 0              | 0                   | 0                | 240  | 0                 | 0.0   | 0.0            | 0  | 3136                    | 10                 | 17                     | 90                   | 40                        | 4                      |                        |
| MT OLIVE        | 80           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 80           | 0              | 0                   | 0                | 80   | 0                 | 0.0   | 0.0            | 0  | 605                     | 6                  | 18                     | 100                  | 33                        | 13                     |                        |
| TOTALS & AVE    | 80           | 0              | 0                   | 0                | 80   | 0                 | 0.0   | 0.0            | 0  | 605                     | 6                  | 18                     | 100                  | 33                        | 13                     |                        |
| MT VERNON       | 220          |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES       | 70           | 0              | 0                   | 0                | 70   | 0                 | 20.0  | 0.0            | 0  | 2670                    | 10                 | 18                     | 100                  | 36                        | 6                      |                        |
| STE GEN         | 150          | 0              | 0                   | 0                | 120  | 30                | 71.4  | 0.0            | 0  | 2750                    | 11                 | 17                     | 100                  | 39                        | 4                      |                        |
| TOTALS & AVE    | 220          | 0              | 0                   | 0                | 190  | 30                | 52.5  | 0.0            | 0  | 2726                    | 11                 | 17                     | 100                  | 38                        | 5                      |                        |
| MT VERNON N     | 20           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY       | 20           | 0              | 0                   | 0                | 20   | 0                 | 50.0  | 0.0            | 0  | 2675                    | 6                  | 17                     | 100                  | 38                        | 5                      |                        |
| TOTALS & AVE    | 20           | 0              | 0                   | 0                | 20   | 0                 | 50.0  | 0.0            | 0  | 2675                    | 6                  | 17                     | 100                  | 38                        | 5                      |                        |
| MUROCK          | 10           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0  | 370                     | 16                 | 18                     | 100                  | 36                        | 7                      |                        |
| TOTALS & AVE    | 10           | 0              | 0                   | 0                | 10   | 0                 | 100.0 | 0.0            | 0  | 370                     | 16                 | 18                     | 100                  | 36                        | 7                      |                        |
| NASON           | 30           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| STE GEN         | 30           | 0              | 0                   | 0                | 30   | 0                 | 33.3  | 0.0            | 0  | 2760                    | 16                 | 14                     | 50                   | 37                        | 5                      |                        |
| TOTALS & AVE    | 30           | 0              | 0                   | 0                | 30   | 0                 | 33.3  | 0.0            | 0  | 2760                    | 16                 | 14                     | 50                   | 37                        | 5                      |                        |
| NEW BAOEN E     | 280          |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN        | 280          | 0              | 0                   | 0                | 200  | 80                | 45.5  | 100.0          | 2  | 1935                    | 15                 | 13                     | 10                   | 39                        | 6                      |                        |
| TOTALS & AVE    | 280          | 0              | 0                   | 0                | 200  | 80                | 45.5  | 100.0          | 2  | 1935                    | 15                 | 13                     | 10                   | 39                        | 6                      |                        |
| NEW BELLAIR     | 150          |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 130          | 0              | 0                   | 0                | 100  | 30                | 33.3  | 100.0          | 0  | 1100                    | 10                 | 18                     | 200                  | 29                        | 14                     |                        |
| AUX VASES       | 40           | 0              | 0                   | 0                | 40   | 0                 | 50.0  | 0.0            | 0  | 1310                    | 9                  | 15                     | 30                   | 37                        | 6                      |                        |
| TOTALS & AVE    | 170          | 0              | 0                   | 0                | 140  | 30                | 38.1  | 100.0          | 0  | 1146                    | 10                 | 17                     | 163                  | 31                        | 12                     |                        |
| NEW CITY        | 290          |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN        | 290          | 0              | 0                   | 0                | 290  | 0                 | 26.9  | 0.0            | 0  | 1750                    | 17                 | 14                     | 40                   | 39                        | 4                      |                        |
| TOTALS & AVE    | 290          | 0              | 0                   | 0                | 290  | 0                 | 26.9  | 0.0            | 0  | 1750                    | 17                 | 14                     | 40                   | 39                        | 4                      |                        |
| NEW CITY S      | 20           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN        | 20           | 0              | 0                   | 0                | 20   | 0                 | 100.0 | 0.0            | 0  | 2000                    | 17                 | 15                     | 40                   | 39                        | 4                      |                        |
| TOTALS & AVE    | 20           | 0              | 0                   | 0                | 20   | 0                 | 100.0 | 0.0            | 0  | 2000                    | 17                 | 15                     | 40                   | 39                        | 4                      |                        |
| NEW DOUGLAS S   | 20           |                |                     |                  |      |                   |       |                |    |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN     | 20           | 0              | 0                   | 0                | 20   | 0                 | 0.0   | 0.0            | 0  | 640                     | 8                  | 18                     | 100                  | 32                        | 15                     |                        |
| TOTALS & AVE    | 20           | 0              | 0                   | 0                | 20   | 0                 | 0.0   | 0.0            | 0  | 640                     | 8                  | 18                     | 100                  | 32                        | 15                     |                        |

| Field name          | Areal acres | Waterflood acres |              |                | Remaining primary |      |                |       | No. of SWD* wells | Average properties |                     |                   |                        |                     |                     |
|---------------------|-------------|------------------|--------------|----------------|-------------------|------|----------------|-------|-------------------|--------------------|---------------------|-------------------|------------------------|---------------------|---------------------|
|                     |             |                  |              |                | Acres             |      | % Active       |       |                   | Depth (ft)         | Thick-<br>neas (ft) | Poroa-<br>ity (%) | Perme-<br>ability (md) | Grav-<br>ity (°API) | Vis-<br>cosity (cp) |
|                     | Pay name    | Pay acres        | Act-<br>tive | Aban-<br>doned | Unde-<br>veloped  | Edge | Inter-<br>rior | Edge  |                   |                    |                     |                   |                        |                     |                     |
| NEW HARMONY C       | 24650       |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| PENNSYLVNIN         | 1710        | 820              | 0            | 100            | 730               | 60   | 75.0           | 100.0 | 1                 | 1669               | 14                  | 19                | 114                    | 34                  | 10                  |
| DEGONIA             | 130         | 0                | 0            | 110            | 20                | 0    | 100.0          | 0.0   | 0                 | 1819               | 10                  | 18                | 50                     | 34                  | 8                   |
| CLORE               | 50          | 0                | 0            | 20             | 30                | 0    | 66.7           | 0.0   | 0                 | 1984               | 10                  | 16                | 52                     | 36                  | 7                   |
| PALESTINE           | 260         | 0                | 0            | 130            | 130               | 0    | 50.0           | 0.0   | 0                 | 2000               | 10                  | 17                | 92                     | 25                  | 82                  |
| WALTERSBURG         | 1170        | 820              | 80           | 50             | 220               | 0    | 68.4           | 0.0   | 0                 | 1993               | 20                  | 17                | 200                    | 36                  | 6                   |
| TAR SPRINGS         | 2350        | 1730             | 0            | 150            | 400               | 70   | 67.5           | 100.0 | 2                 | 2187               | 23                  | 18                | 141                    | 35                  | 10                  |
| HAROLDSBURG         | 10          | 0                | 0            | 10             | 0                 | 0    | 0.0            | 0.0   | 0                 | 2290               | 10                  | 14                | 20                     | 35                  | 8                   |
| CYPRESS             | 10740       | 7270             | 500          | 220            | 2220              | 530  | 70.9           | 92.3  | 2                 | 2404               | 17                  | 18                | 77                     | 35                  | 11                  |
| PT CK GROUP         | 10670       | 6690             | 560          | 300            | 2540              | 580  | 77.6           | 92.9  | 0                 | 2619               | 20                  | 16                | 61                     | 37                  | 8                   |
| RENAULT             | 10          | 0                | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                 | 2750               | 8                   | 18                | 50                     | 34                  | 9                   |
| AUX VASES           | 8300        | 6710             | 230          | 200            | 960               | 200  | 78.8           | 100.0 | 0                 | 2800               | 15                  | 18                | 100                    | 37                  | 7                   |
| STE GEN             | 4830        | 890              | 360          | 2070           | 1470              | 40   | 62.7           | 0.0   | 1                 | 2896               | 12                  | 16                | 147                    | 38                  | 5                   |
| ST LOUIS            | 60          | 0                | 0            | 60             | 0                 | 0    | 0.0            | 0.0   | 0                 | 3200               | 5                   | 12                | 20                     | 36                  | 7                   |
| SALEM               | 50          | 0                | 0            | 10             | 40                | 0    | 75.0           | 0.0   | 0                 | 3355               | 16                  | 13                | 30                     | 37                  | 6                   |
| ULLIN               | 30          | 0                | 0            | 30             | 0                 | 0    | 0.0            | 0.0   | 0                 | 3750               | 50                  | 10                | 10                     | 36                  | 6                   |
| TOTALS & AVE        | 40370       | 24930            | 1730         | 3460           | 8770              | 1480 | 72.3           | 91.7  | 6                 | 2529               | 17                  | 17                | 92                     | 36                  | 9                   |
| NEW HARMONY S (IND) | 90          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| WALTERSBURG         | 30          | 0                | 0            | 0              | 30                | 0    | 50.0           | 0.0   | 0                 | 2250               | 18                  | 18                | 200                    | 35                  | 6                   |
| TAR SPRINGS         | 10          | 0                | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                 | 2260               | 17                  | 18                | 120                    | 36                  | 7                   |
| CYPRESS             | 10          | 0                | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                 | 2670               | 10                  | 18                | 50                     | 35                  | 12                  |
| BETHEL              | 20          | 0                | 0            | 0              | 20                | 0    | 0.0            | 0.0   | 0                 | 2800               | 10                  | 17                | 50                     | 36                  | 10                  |
| AUX VASES           | 10          | 0                | 0            | 0              | 10                | 0    | 100.0          | 0.0   | 0                 | 3000               | 10                  | 18                | 100                    | 37                  | 7                   |
| MCCLOSKEY           | 20          | 0                | 0            | 0              | 20                | 0    | 50.0           | 0.0   | 0                 | 3010               | 10                  | 15                | 40                     | 37                  | 6                   |
| TOTALS & AVE        | 100         | 0                | 0            | 0              | 100               | 0    | 45.0           | 0.0   | 0                 | 2541               | 13                  | 17                | 123                    | 36                  | 7                   |
| NEW HARMONY S (INO) | 50          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| DEGONIA             | 20          | 20               | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                 | 1850               | 8                   | 18                | 50                     | 35                  | 8                   |
| PALESTINE           | 50          | 50               | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                 | 1950               | 10                  | 18                | 300                    | 24                  | 99                  |
| WALTERSBURG         | 50          | 50               | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                 | 2120               | 30                  | 18                | 100                    | 37                  | 5                   |
| TOTALS & AVE        | 120         | 120              | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                 | 2061               | 18                  | 18                | 143                    | 34                  | 27                  |
| NEW HAVEN C         | 630         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| TAR SPRINGS         | 250         | 250              | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                 | 2100               | 12                  | 18                | 75                     | 38                  | 5                   |
| HAROLDSBURG         | 10          | 0                | 0            | 10             | 0                 | 0    | 0.0            | 0.0   | 0                 | 2245               | 8                   | 17                | 50                     | 36                  | 7                   |
| CYPRESS             | 450         | 450              | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 0                 | 2450               | 10                  | 18                | 50                     | 39                  | 4                   |
| AUX VASES           | 110         | 0                | 0            | 110            | 0                 | 0    | 0.0            | 0.0   | 0                 | 2720               | 15                  | 20                | 75                     | 37                  | 6                   |
| STE GEN             | 120         | 0                | 0            | 120            | 0                 | 0    | 0.0            | 0.0   | 0                 | 2800               | 11                  | 15                | 50                     | 36                  | 7                   |
| TOTALS & AVE        | 940         | 700              | 0            | 240            | 0                 | 0    | 0.0            | 0.0   | 0                 | 2435               | 11                  | 18                | 61                     | 38                  | 5                   |
| NEW HEBRON E        | 50          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| AUX VASES           | 50          | 0                | 0            | 0              | 50                | 0    | 25.0           | 0.0   | 0                 | 1550               | 4                   | 14                | 10                     | 35                  | 8                   |
| TOTALS & AVE        | 50          | 0                | 0            | 0              | 50                | 0    | 25.0           | 0.0   | 0                 | 1550               | 4                   | 14                | 10                     | 35                  | 8                   |
| NEW MEMPHIS         | 640         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| SILURIAN            | 640         | 0                | 0            | 0              | 340               | 300  | 100.0          | 100.0 | 0                 | 2021               | 74                  | 10                | 9                      | 41                  | 5                   |
| TOTALS & AVE        | 640         | 0                | 0            | 0              | 340               | 300  | 100.0          | 100.0 | 0                 | 2021               | 74                  | 10                | 9                      | 41                  | 5                   |
| NEW MEMPHIS E       | 20          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| OEUVONIAN           | 20          | 0                | 0            | 0              | 20                | 0    | 100.0          | 0.0   | 0                 | 2170               | 15                  | 12                | 100                    | 36                  | 10                  |
| TOTALS & AVE        | 20          | 0                | 0            | 0              | 20                | 0    | 100.0          | 0.0   | 0                 | 2170               | 15                  | 12                | 100                    | 36                  | 10                  |
| NEW MEMPHIS N       | 90          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| OEUV-SIL            | 90          | 0                | 0            | 0              | 90                | 0    | 85.7           | 0.0   | 0                 | 2050               | 15                  | 12                | 5                      | 40                  | 5                   |
| TOTALS & AVE        | 90          | 0                | 0            | 0              | 90                | 0    | 85.7           | 0.0   | 0                 | 2050               | 15                  | 12                | 5                      | 40                  | 5                   |
| NEW MEMPHIS S       | 20          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| SILURIAN            | 20          | 0                | 0            | 0              | 20                | 0    | 0.0            | 0.0   | 0                 | 2000               | 25                  | 11                | 30                     | 41                  | 5                   |
| TOTALS & AVE        | 20          | 0                | 0            | 0              | 20                | 0    | 0.0            | 0.0   | 0                 | 2000               | 25                  | 11                | 30                     | 41                  | 5                   |
| NEWTON              | 40          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| STE GEN             | 40          | 0                | 0            | 0              | 40                | 0    | 0.0            | 0.0   | 1                 | 2950               | 6                   | 17                | 180                    | 37                  | 6                   |
| TOTALS & AVE        | 40          | 0                | 0            | 0              | 40                | 0    | 0.0            | 0.0   | 1                 | 2950               | 6                   | 17                | 180                    | 37                  | 6                   |
| NEWTON N            | 90          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| MCCLOSKEY           | 90          | 0                | 0            | 0              | 90                | 0    | 0.0            | 0.0   | 0                 | 2850               | 5                   | 15                | 50                     | 37                  | 6                   |
| TOTALS & AVE        | 90          | 0                | 0            | 0              | 90                | 0    | 0.0            | 0.0   | 0                 | 2850               | 5                   | 15                | 50                     | 37                  | 6                   |
| NEWTON W            | 550         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| STE GEN             | 550         | 0                | 0            | 0              | 470               | 80   | 37.9           | 100.0 | 0                 | 2910               | 7                   | 15                | 84                     | 38                  | 5                   |
| TOTALS & AVE        | 550         | 0                | 0            | 0              | 470               | 80   | 37.9           | 100.0 | 0                 | 2910               | 7                   | 15                | 84                     | 38                  | 5                   |
| NOBLE W             | 10          |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| MCCLOSKEY           | 10          | 0                | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                 | 3035               | 8                   | 16                | 100                    | 36                  | 7                   |
| TOTALS & AVE        | 10          | 0                | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                 | 3035               | 8                   | 16                | 100                    | 36                  | 7                   |
| OAKDALE             | 390         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| AUX VASES           | 370         | 0                | 60           | 0              | 290               | 20   | 72.7           | 100.0 | 2                 | 2860               | 15                  | 20                | 120                    | 38                  | 6                   |
| MCCLOSKEY           | 70          | 0                | 0            | 0              | 70                | 0    | 66.7           | 0.0   | 0                 | 2985               | 5                   | 17                | 100                    | 37                  | 6                   |
| TOTALS & AVE        | 440         | 0                | 60           | 0              | 360               | 20   | 71.5           | 100.0 | 2                 | 2867               | 13                  | 20                | 119                    | 38                  | 6                   |
| OAKDALE N           | 170         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| MCCLOSKEY           | 170         | 170              | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 2                 | 2930               | 5                   | 17                | 200                    | 37                  | 6                   |
| TOTALS & AVE        | 170         | 170              | 0            | 0              | 0                 | 0    | 0.0            | 0.0   | 2                 | 2930               | 5                   | 17                | 200                    | 37                  | 6                   |
| OAKLEY              | 150         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| COR VLLY N          | 150         | 0                | 0            | 0              | 150               | 0    | 10.0           | 0.0   | 0                 | 2285               | 5                   | 13                | 30                     | 37                  | 7                   |
| TOTALS & AVE        | 150         | 0                | 0            | 0              | 150               | 0    | 10.0           | 0.0   | 0                 | 2285               | 5                   | 13                | 30                     | 37                  | 7                   |
| OAK POINT           | 700         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| PENNSYLVNIN         | 10          | 0                | 0            | 0              | 10                | 0    | 0.0            | 0.0   | 0                 | 560                | 10                  | 19                | 50                     | 32                  | 15                  |
| AUX VASES           | 650         | 220              | 140          | 0              | 240               | 50   | 35.7           | 0.0   | 2                 | 1185               | 17                  | 14                | 20                     | 37                  | 7                   |
| CARPER              | 40          | 0                | 0            | 0              | 40                | 0    | 66.7           | 0.0   | 0                 | 2220               | 15                  | 11                | 15                     | 37                  | 6                   |
| TOTALS & AVE        | 700         | 220              | 140          | 0              | 290               | 50   | 38.8           | 0.0   | 2                 | 1233               | 17                  | 14                | 20                     | 37                  | 7                   |
| OAK POINT W         | 110         |                  |              |                |                   |      |                |       |                   |                    |                     |                   |                        |                     |                     |
| AUX VASES           | 110         | 0                | 0            | 0              | 100               | 10   | 62.5           | 100.0 | 0                 | 1190               | 8                   | 14                | 20                     | 35                  | 8                   |
| TOTALS & AVE        | 110         | 0                | 0            | 0              | 100               | 10   | 62.5           | 100.0 | 0                 | 1190               | 8                   | 14                | 20                     | 35                  | 8                   |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name     |           | Areal acres | Waterflood acres |              |      | Remaining primary |       |           |   | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|----------------|-----------|-------------|------------------|--------------|------|-------------------|-------|-----------|---|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                |           |             |                  |              |      | Acres             |       | % Active  |   |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
| Pay name       | Pay acres | Act-ive     | Aban-doned       | Unde-veloped | Edge | Inter-ior         | Edge  | Inter-ior |   |                   |                    |                 |               |                    |                 |                 |
| DOIN           | 340       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS        | 340       | 0           | 340              | 0            | 0    | 0                 | 0.0   | 0.0       | 0 | 1700              | 15                 | 20              | 78            | 37                 | 6               |                 |
| BENOIST        | 10        | 0           | 0                | 10           | 0    | 0                 | 0.0   | 0.0       | 0 | 1900              | 3                  | 18              | 100           | 37                 | 6               |                 |
| MCCLOSKEY      | 10        | 0           | 0                | 10           | 0    | 0                 | 0.0   | 0.0       | 0 | 2085              | 12                 | 16              | 100           | 37                 | 6               |                 |
| TOTALS & AVE   | 360       | 0           | 340              | 20           | 0    | 0                 | 0.0   | 0.0       | 0 | 1710              | 15                 | 20              | 79            | 37                 | 6               |                 |
| OKAWVILLE      | 50        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| SILURIAN       | 50        | 0           | 0                | 0            | 50   | 0                 | 75.0  | 0.0       | 0 | 2325              | 12                 | 12              | 40            | 40                 | 5               |                 |
| TOTALS & AVE   | 50        | 0           | 0                | 0            | 50   | 0                 | 75.0  | 0.0       | 0 | 2325              | 12                 | 12              | 40            | 40                 | 5               |                 |
| OKAWVILLE N    | 110       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| SILURIAN       | 110       | 0           | 0                | 0            | 60   | 10                | 83.3  | 0.0       | 0 | 2235              | 10                 | 12              | 40            | 40                 | 5               |                 |
| TOTALS & AVE   | 110       | 0           | 0                | 0            | 60   | 10                | 83.3  | 0.0       | 0 | 2235              | 10                 | 12              | 40            | 40                 | 5               |                 |
| OLO RIPLEY     | 920       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    | 920       | 160         | 0                | 0            | 390  | 370               | 65.4  | 97.1      | 1 | 575               | 16                 | 18              | 100           | 34                 | 12              |                 |
| AUX VASES      | 10        | 0           | 0                | 10           | 0    | 0                 | 0.0   | 0.0       | 0 | 940               | 19                 | 16              | 50            | 36                 | 7               |                 |
| TOTALS & AVE   | 930       | 160         | 0                | 10           | 390  | 370               | 65.4  | 97.1      | 1 | 580               | 16                 | 18              | 99            | 34                 | 12              |                 |
| OLO RIPLEY N   | 20        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| HAROLD         | 20        | 0           | 0                | 0            | 20   | 0                 | 0.0   | 0.0       | 0 | 1991              | 1                  | 13              | 50            | 35                 | 10              |                 |
| TOTALS & AVE   | 20        | 0           | 0                | 0            | 20   | 0                 | 0.0   | 0.0       | 0 | 1991              | 1                  | 13              | 50            | 35                 | 10              |                 |
| OLNEY C        | 3470      |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES      | 80        | 0           | 0                | 0            | 80   | 0                 | 0.0   | 0.0       | 0 | 2920              | 20                 | 17              | 50            | 37                 | 6               |                 |
| STE GEN        | 3430      | 1440        | 540              | 0            | 1370 | 80                | 36.6  | 66.7      | 3 | 3005              | 10                 | 16              | 500           | 37                 | 6               |                 |
| TOTALS & AVE   | 3510      | 1440        | 540              | 0            | 1450 | 80                | 34.5  | 66.7      | 3 | 3001              | 10                 | 16              | 480           | 37                 | 6               |                 |
| OLNEY S        | 930       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| STE GEN        | 930       | 0           | 90               | 0            | 610  | 230               | 55.3  | 80.0      | 0 | 3100              | 5                  | 16              | 50            | 37                 | 8               |                 |
| TOTALS & AVE   | 930       | 0           | 90               | 0            | 610  | 230               | 55.3  | 80.0      | 0 | 3100              | 5                  | 16              | 50            | 37                 | 8               |                 |
| OMAHA          | 1750      |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN    | 340       | 0           | 0                | 90           | 240  | 10                | 100.0 | 100.0     | 0 | 500               | 18                 | 19              | 100           | 24                 | 99              |                 |
| PALESTINE      | 410       | 290         | 0                | 0            | 110  | 10                | 90.0  | 100.0     | 0 | 1695              | 17                 | 19              | 400           | 26                 | 35              |                 |
| TAR SPRINGS    | 160       | 0           | 0                | 120          | 40   | 0                 | 100.0 | 0.0       | 0 | 1900              | 15                 | 18              | 200           | 27                 | 29              |                 |
| HAROLDINSBURG  | 80        | 0           | 0                | 0            | 70   | 10                | 100.0 | 100.0     | 0 | 2180              | 18                 | 20              | 200           | 29                 | 21              |                 |
| CYPRESS        | 150       | 0           | 30               | 0            | 120  | 0                 | 100.0 | 0.0       | 0 | 2400              | 12                 | 18              | 80            | 35                 | 9               |                 |
| PT CK GROUP    | 40        | 0           | 0                | 0            | 40   | 0                 | 75.0  | 0.0       | 0 | 2500              | 12                 | 18              | 50            | 37                 | 6               |                 |
| AUX VASES      | 890       | 590         | 0                | 130          | 160  | 10                | 0.0   | 0.0       | 0 | 2760              | 20                 | 19              | 100           | 40                 | 4               |                 |
| STE GEN        | 350       | 40          | 0                | 40           | 200  | 70                | 91.7  | 100.0     | 0 | 2730              | 10                 | 15              | 90            | 38                 | 6               |                 |
| TOTALS & AVE   | 2420      | 920         | 30               | 380          | 980  | 110               | 79.8  | 90.9      | 0 | 2142              | 17                 | 19              | 159           | 34                 | 26              |                 |
| OMAHA E        | 130       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS        | 30        | 0           | 0                | 0            | 30   | 0                 | 0.0   | 0.0       | 0 | 2550              | 8                  | 18              | 80            | 41                 | 5               |                 |
| AUX VASES      | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2790              | 10                 | 18              | 75            | 38                 | 5               |                 |
| STE GEN        | 90        | 0           | 0                | 0            | 90   | 0                 | 16.7  | 0.0       | 0 | 2850              | 10                 | 14              | 70            | 38                 | 5               |                 |
| TOTALS & AVE   | 130       | 0           | 0                | 0            | 130  | 0                 | 11.5  | 0.0       | 0 | 2787              | 10                 | 15              | 72            | 39                 | 5               |                 |
| OMAHA S        | 110       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS        | 90        | 0           | 40               | 0            | 50   | 0                 | 0.0   | 0.0       | 0 | 2540              | 16                 | 18              | 80            | 36                 | 6               |                 |
| AUX VASES      | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2870              | 11                 | 18              | 75            | 38                 | 5               |                 |
| SPAR MTN       | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2870              | 11                 | 14              | 60            | 37                 | 6               |                 |
| TOTALS & AVE   | 110       | 0           | 40               | 0            | 70   | 0                 | 0.0   | 0.0       | 0 | 2584              | 15                 | 18              | 78            | 36                 | 6               |                 |
| OMAHA W        | 90        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS        | 60        | 0           | 0                | 0            | 60   | 0                 | 80.0  | 0.0       | 0 | 2600              | 14                 | 18              | 80            | 38                 | 6               |                 |
| SAMPLE         | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0       | 0 | 2600              | 12                 | 18              | 150           | 38                 | 6               |                 |
| AUX VASES      | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0       | 0 | 2800              | 30                 | 18              | 50            | 37                 | 6               |                 |
| MCCLOSKEY      | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2910              | 10                 | 14              | 100           | 38                 | 5               |                 |
| TOTALS & AVE   | 100       | 0           | 0                | 0            | 100  | 0                 | 78.0  | 0.0       | 0 | 2691              | 17                 | 18              | 75            | 38                 | 6               |                 |
| OMEGA          | 70        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| RENOIST        | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2300              | 5                  | 16              | 30            | 38                 | 6               |                 |
| MCCLOSKEY      | 60        | 0           | 0                | 0            | 60   | 0                 | 25.0  | 0.0       | 0 | 2500              | 10                 | 17              | 100           | 38                 | 5               |                 |
| TOTALS & AVE   | 70        | 0           | 0                | 0            | 70   | 0                 | 21.4  | 0.0       | 0 | 2485              | 9                  | 17              | 95            | 38                 | 5               |                 |
| OPOYKE         | 40        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| STE GEN        | 40        | 0           | 0                | 0            | 40   | 0                 | 0.0   | 0.0       | 0 | 3015              | 21                 | 17              | 200           | 37                 | 6               |                 |
| TOTALS & AVE   | 40        | 0           | 0                | 0            | 40   | 0                 | 0.0   | 0.0       | 0 | 3015              | 21                 | 17              | 200           | 37                 | 6               |                 |
| ORCHAROVILLE   | 200       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| SAMPLE         | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2650              | 8                  | 16              | 100           | 36                 | 7               |                 |
| AUX VASES      | 190       | 40          | 0                | 0            | 150  | 0                 | 75.0  | 0.0       | 0 | 2800              | 16                 | 17              | 50            | 36                 | 7               |                 |
| STE GEN        | 60        | 0           | 0                | 0            | 60   | 0                 | 60.0  | 0.0       | 0 | 2880              | 4                  | 17              | 150           | 37                 | 6               |                 |
| TOTALS & AVE   | 260       | 40          | 0                | 0            | 220  | 0                 | 67.5  | 0.0       | 0 | 2802              | 13                 | 17              | 58            | 36                 | 7               |                 |
| ORCHAROVILLE N | 10        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| PT CK GROUP    | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2650              | 6                  | 16              | 40            | 37                 | 6               |                 |
| TOTALS & AVE   | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2650              | 6                  | 16              | 40            | 37                 | 6               |                 |
| ORIENT         | 30        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES      | 30        | 0           | 0                | 0            | 30   | 0                 | 100.0 | 0.0       | 0 | 2660              | 24                 | 18              | 86            | 38                 | 5               |                 |
| TOTALS & AVE   | 30        | 0           | 0                | 0            | 30   | 0                 | 100.0 | 0.0       | 0 | 2660              | 24                 | 18              | 86            | 38                 | 5               |                 |
| ORIENT N       | 10        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES      | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0       | 0 | 2680              | 4                  | 17              | 90            | 38                 | 5               |                 |
| TOTALS & AVE   | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0       | 0 | 2680              | 4                  | 17              | 90            | 38                 | 5               |                 |
| OSKALOOSA      | 470       |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| BENOIST        | 450       | 370         | 0                | 0            | 80   | 0                 | 28.6  | 0.0       | 0 | 2600              | 14                 | 16              | 50            | 37                 | 6               |                 |
| AUX VASES      | 140       | 140         | 0                | 0            | 0    | 0                 | 0.0   | 0.0       | 0 | 2640              | 10                 | 13              | 40            | 37                 | 7               |                 |
| MCCLOSKEY      | 250       | 170         | 0                | 0            | 80   | 0                 | 33.3  | 0.0       | 0 | 2755              | 9                  | 15              | 100           | 36                 | 7               |                 |
| TOTALS & AVE   | 840       | 680         | 0                | 0            | 160  | 0                 | 31.0  | 0.0       | 0 | 2641              | 12                 | 15              | 60            | 37                 | 6               |                 |
| OSKALOOSA E    | 20        |             |                  |              |      |                   |       |           |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES      | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2820              | 5                  | 15              | 40            | 37                 | 7               |                 |
| MCCLOSKEY      | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0       | 0 | 2895              | 4                  | 16              | 100           | 33                 | 9               |                 |
| TOTALS & AVE   | 20        | 0           | 0                | 0            | 20   | 0                 | 0.0   | 0.0       | 0 | 2853              | 5                  | 15              | 67            | 35                 | 8               |                 |



| Field name    |           | Areal acres | Waterflood acres |              |      | Remaining primary |       |            |    | No. of SWD* wells | Average properties |                 |               |                    |                 |                  |
|---------------|-----------|-------------|------------------|--------------|------|-------------------|-------|------------|----|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|------------------|
|               |           |             |                  |              |      | Acres             |       | % Active   |    |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Visa-cosity (cp) |
| Pay name      | Pay acres | Act-ive     | Aban-doned       | Unde-veloped | Edge | Inter-rior        | Edge  | Inter-rior |    |                   |                    |                 |               |                    |                 |                  |
| OSKALOOSA S   | 110       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| MCCLOSKY      | 110       | 0           | 0                | 0            | 110  | 0                 | 77.8  | 0.0        | 0  | 2770              | 4                  | 15              | 100           | 35                 | 8               |                  |
| TOTALS & AVE  | 110       | 0           | 0                | 0            | 110  | 0                 | 77.8  | 0.0        | 0  | 2770              | 4                  | 15              | 100           | 35                 | 8               |                  |
| PANA          | 60        |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| BENOIST       | 60        | 0           | 0                | 0            | 60   | 0                 | 60.0  | 0.0        | 0  | 1475              | 10                 | 18              | 50            | 37                 | 5               |                  |
| TOTALS & AVE  | 60        | 0           | 0                | 0            | 60   | 0                 | 60.0  | 0.0        | 0  | 1475              | 10                 | 18              | 50            | 37                 | 5               |                  |
| PANAMA        | 60        |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| GOLCONDA      | 40        | 0           | 0                | 0            | 40   | 0                 | 50.0  | 0.0        | 0  | 705               | 12                 | 15              | 50            | 31                 | 15              |                  |
| BENOIST       | 20        | 0           | 0                | 0            | 20   | 0                 | 0.0   | 0.0        | 0  | 865               | 12                 | 16              | 50            | 28                 | 25              |                  |
| TOTALS & AVE  | 60        | 0           | 0                | 0            | 60   | 0                 | 33.3  | 0.0        | 0  | 758               | 12                 | 15              | 50            | 30                 | 18              |                  |
| PANKEYVILLE   | 30        |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| CYPRESS       | 20        | 0           | 0                | 0            | 20   | 0                 | 50.0  | 0.0        | 0  | 2250              | 6                  | 18              | 70            | 37                 | 6               |                  |
| AUX VASES     | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 2510              | 22                 | 18              | 50            | 38                 | 5               |                  |
| TOTALS & AVE  | 30        | 0           | 0                | 0            | 30   | 0                 | 66.7  | 0.0        | 0  | 2418              | 11                 | 18              | 57            | 38                 | 5               |                  |
| PANKEYVILLE E | 10        |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| CYPRESS       | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0  | 2250              | 10                 | 18              | 70            | 37                 | 7               |                  |
| PT CK GROUP   | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0  | 2360              | 13                 | 16              | 50            | 36                 | 7               |                  |
| TOTALS & AVE  | 20        | 0           | 0                | 0            | 20   | 0                 | 0.0   | 0.0        | 0  | 2312              | 12                 | 17              | 59            | 36                 | 7               |                  |
| PARKERSBURG C | 5120      |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| PENNSYLVNIN   | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 2100              | 18                 | 18              | 100           | 36                 | 7               |                  |
| WALTERSBURG   | 11        | 0           | 0                | 0            | 110  | 0                 | 44.4  | 0.0        | 1  | 2400              | 10                 | 17              | 100           | 39                 | 8               |                  |
| TAR SPRINGS   | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 2440              | 2                  | 18              | 120           | 36                 | 6               |                  |
| CYPRESS       | 170       | 110         | 0                | 0            | 60   | 0                 | 50.0  | 0.0        | 1  | 2770              | 12                 | 17              | 100           | 36                 | 7               |                  |
| BETHEL        | 300       | 0           | 20               | 50           | 230  | 0                 | 57.9  | 0.0        | 0  | 2930              | 12                 | 17              | 50            | 35                 | 6               |                  |
| AUX VASES     | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 3070              | 20                 | 16              | 50            | 37                 | 6               |                  |
| STE GEN       | 4540      | 170         | 320              | 160          | 2380 | 1510              | 17.2  | 18.8       | 9  | 3100              | 15                 | 16              | 100           | 38                 | 5               |                  |
| TOTALS & AVE  | 5150      | 280         | 340              | 210          | 2810 | 1510              | 23.2  | 18.8       | 11 | 3070              | 15                 | 16              | 97            | 38                 | 5               |                  |
| PARKERSBURG S | 100       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| PENNSYLVNIN   | 70        | 0           | 0                | 0            | 70   | 0                 | 50.0  | 0.0        | 0  | 1400              | 10                 | 18              | 100           | 35                 | 10              |                  |
| CYPRESS       | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 2700              | 10                 | 17              | 100           | 36                 | 7               |                  |
| BETHEL        | 20        | 0           | 0                | 0            | 20   | 0                 | 0.0   | 0.0        | 0  | 2815              | 5                  | 17              | 50            | 35                 | 6               |                  |
| TOTALS & AVE  | 100       | 0           | 0                | 0            | 100  | 0                 | 45.0  | 0.0        | 0  | 1702              | 9                  | 18              | 94            | 35                 | 9               |                  |
| PARKERSBURG W | 390       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| STE GEN       | 390       | 0           | 0                | 0            | 320  | 70                | 4.5   | 0.0        | 1  | 3200              | 6                  | 16              | 150           | 38                 | 5               |                  |
| TOTALS & AVE  | 390       | 0           | 0                | 0            | 320  | 70                | 4.5   | 0.0        | 1  | 3200              | 6                  | 16              | 150           | 38                 | 5               |                  |
| PARNELL       | 330       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| SONORA        | 330       | 0           | 0                | 0            | 330  | 0                 | 91.3  | 0.0        | 0  | 670               | 12                 | 13              | 10            | 32                 | 13              |                  |
| DEVONIAN      | 40        | 0           | 0                | 0            | 40   | 0                 | 100.0 | 0.0        | 0  | 1100              | 10                 | 12              | 15            | 37                 | 6               |                  |
| TOTALS & AVE  | 370       | 0           | 0                | 0            | 370  | 0                 | 92.2  | 0.0        | 0  | 709               | 12                 | 13              | 10            | 32                 | 12              |                  |
| PASSPORT      | 980       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| AUX VASES     | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 2960              | 15                 | 18              | 50            | 36                 | 10              |                  |
| STE GEN       | 970       | 690         | 0                | 0            | 260  | 20                | 29.4  | 0.0        | 0  | 3000              | 10                 | 17              | 300           | 38                 | 5               |                  |
| TOTALS & AVE  | 980       | 690         | 0                | 0            | 270  | 20                | 32.0  | 0.0        | 0  | 2999              | 10                 | 17              | 296           | 38                 | 5               |                  |
| PASSPORT N    | 60        |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| AUX VASES     | 60        | 0           | 0                | 0            | 60   | 0                 | 60.0  | 0.0        | 0  | 2950              | 10                 | 17              | 40            | 36                 | 10              |                  |
| TOTALS & AVE  | 60        | 0           | 0                | 0            | 60   | 0                 | 60.0  | 0.0        | 0  | 2950              | 10                 | 17              | 40            | 36                 | 10              |                  |
| PASSPORT S    | 130       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| TAR SPRINGS   | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 2370              | 9                  | 17              | 100           | 37                 | 6               |                  |
| CYPRESS       | 80        | 60          | 0                | 0            | 20   | 0                 | 0.0   | 0.0        | 0  | 2665              | 15                 | 19              | 100           | 38                 | 6               |                  |
| AUX VASES     | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0  | 2950              | 8                  | 17              | 50            | 36                 | 10              |                  |
| STE GEN       | 40        | 0           | 0                | 0            | 40   | 0                 | 25.0  | 0.0        | 0  | 3025              | 7                  | 16              | 180           | 38                 | 7               |                  |
| TOTALS & AVE  | 140       | 60          | 0                | 0            | 80   | 0                 | 25.0  | 0.0        | 0  | 2724              | 12                 | 18              | 111           | 38                 | 6               |                  |
| PASSPORT W    | 150       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| STE GEN       | 150       | 0           | 0                | 0            | 140  | 10                | 0.0   | 0.0        | 0  | 3030              | 5                  | 17              | 300           | 37                 | 7               |                  |
| TOTALS & AVE  | 150       | 0           | 0                | 0            | 140  | 10                | 0.0   | 0.0        | 0  | 3030              | 5                  | 17              | 300           | 37                 | 7               |                  |
| PATOKA        | 1560      |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| CYPRESS       | 60        | 60          | 0                | 0            | 0    | 0                 | 0.0   | 0.0        | 0  | 1280              | 10                 | 21              | 32            | 39                 | 5               |                  |
| BENOIST       | 1000      | 640         | 0                | 0            | 240  | 120               | 100.0 | 100.0      | 1  | 1400              | 27                 | 19              | 110           | 37                 | 7               |                  |
| SPAR MTN      | 510       | 450         | 0                | 40           | 20   | 0                 | 100.0 | 0.0        | 0  | 1550              | 9                  | 19              | 200           | 39                 | 4               |                  |
| GENEVA        | 30        | 0           | 0                | 30           | 0    | 0                 | 0.0   | 0.0        | 0  | 2850              | 10                 | 12              | 25            | 40                 | 4               |                  |
| TRENTON       | 630       | 630         | 0                | 0            | 0    | 0                 | 0.0   | 0.0        | 0  | 3935              | 19                 | 8               | 3             | 42                 | 4               |                  |
| TOTALS & AVE  | 2230      | 1780        | 0                | 70           | 260  | 120               | 100.0 | 100.0      | 1  | 2106              | 20                 | 16              | 89            | 39                 | 6               |                  |
| PATOKA E      | 560       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| CYPRESS       | 560       | 250         | 0                | 0            | 160  | 150               | 88.9  | 100.0      | 0  | 1350              | 16                 | 19              | 100           | 36                 | 6               |                  |
| BENOIST       | 50        | 40          | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0  | 1465              | 10                 | 19              | 100           | 36                 | 6               |                  |
| MCCLOSKY      | 40        | 0           | 0                | 40           | 0    | 0                 | 0.0   | 0.0        | 0  | 1635              | 8                  | 18              | 100           | 34                 | 10              |                  |
| GENEVA        | 20        | 0           | 0                | 20           | 0    | 0                 | 0.0   | 0.0        | 0  | 2950              | 10                 | 14              | 20            | 35                 | 9               |                  |
| TOTALS & AVE  | 670       | 290         | 0                | 60           | 170  | 150               | 89.5  | 100.0      | 0  | 1397              | 15                 | 19              | 98            | 36                 | 6               |                  |
| PATOKA S      | 910       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| CYPRESS       | 730       | 580         | 0                | 10           | 110  | 30                | 100.0 | 100.0      | 0  | 1350              | 10                 | 20              | 50            | 36                 | 6               |                  |
| BENOIST       | 200       | 140         | 0                | 40           | 20   | 0                 | 50.0  | 0.0        | 0  | 1400              | 15                 | 18              | 100           | 37                 | 6               |                  |
| SPAR MTN      | 40        | 0           | 0                | 40           | 0    | 0                 | 0.0   | 0.0        | 0  | 1625              | 5                  | 19              | 200           | 41                 | 3               |                  |
| TOTALS & AVE  | 970       | 720         | 0                | 90           | 130  | 30                | 92.3  | 100.0      | 0  | 1370              | 11                 | 19              | 67            | 36                 | 6               |                  |
| PATOKA W      | 200       |             |                  |              |      |                   |       |            |    |                   |                    |                 |               |                    |                 |                  |
| BENOIST       | 200       | 0           | 0                | 0            | 150  | 50                | 0.0   | 0.0        | 1  | 1380              | 6                  | 19              | 100           | 32                 | 13              |                  |
| TOTALS & AVE  | 200       | 0           | 0                | 0            | 150  | 50                | 0.0   | 0.0        | 1  | 1380              | 6                  | 19              | 100           | 32                 | 13              |                  |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name                 |          | Areal acres | Waterflood acres |            |              | Remaining primary |            |          |            | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|----------------------------|----------|-------------|------------------|------------|--------------|-------------------|------------|----------|------------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                            |          |             |                  |            |              | Acres             |            | % Active |            |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |
|                            | Pay name | Pay acres   | Act-tive         | Aban-doned | Unde-veloped | Edge              | Inter-rior | Edge     | Inter-rior |                   |                    |                 |               |                    |                 |                 |
| PHILLIPSTOWN C PENNSYLVNIN |          | 6400        |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| KINKAID                    |          | 1470        | 280              | 310        | 330          | 510               | 40         | 86.4     | 100.0      | 0                 | 1527               | 12              | 18            | 61                 | 34              | 11              |
| OEGONIA                    |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 1950               | 17              | 18            | 180                | 35              | 8               |
| CLORE                      |          | 710         | 300              | 0          | 40           | 290               | 80         | 86.4     | 100.0      | 0                 | 1970               | 10              | 18            | 50                 | 38              | 5               |
| PALESTINE                  |          | 160         | 0                | 0          | 70           | 90                | 0          | 100.0    | 0.0        | 0                 | 2010               | 12              | 15            | 30                 | 34              | 8               |
| WALTERSBURG                |          | 90          | 0                | 0          | 50           | 40                | 0          | 33.3     | 0.0        | 0                 | 2050               | 12              | 18            | 256                | 32              | 14              |
| TAR SPRINGS                |          | 80          | 0                | 0          | 10           | 70                | 0          | 100.0    | 0.0        | 1                 | 2292               | 11              | 17            | 125                | 34              | 8               |
| CYPRESS                    |          | 1080        | 330              | 40         | 110          | 530               | 70         | 86.7     | 100.0      | 1                 | 2300               | 15              | 18            | 75                 | 35              | 7               |
| PT CK GROUP                |          | 520         | 330              | 60         | 10           | 120               | 0          | 70.0     | 0.0        | 1                 | 2700               | 13              | 18            | 50                 | 36              | 10              |
| AUX VASES                  |          | 1530        | 570              | 340        | 100          | 490               | 30         | 52.5     | 0.0        | 0                 | 2800               | 13              | 16            | 50                 | 37              | 6               |
| STE GEN                    |          | 940         | 250              | 0          | 110          | 580               | 0          | 70.6     | 0.0        | 0                 | 2897               | 15              | 18            | 100                | 37              | 6               |
| TOTALS & AVE               |          | 1980        | 220              | 0          | 330          | 1290              | 140        | 44.4     | 91.7       | 3                 | 3000               | 11              | 16            | 87                 | 37              | 6               |
|                            |          | 8570        | 2280             | 750        | 1160         | 4020              | 360        | 66.1     | 88.4       | 6                 | 2481               | 13              | 17            | 72                 | 36              | 7               |
| PHILLIPSTOWN S             |          | 190         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS                |          | 100         | 80               | 0          | 0            | 20                | 0          | 50.0     | 0.0        | 0                 | 2350               | 10              | 18            | 75                 | 35              | 7               |
| AUX VASES                  |          | 60          | 0                | 0          | 0            | 60                | 0          | 80.0     | 0.0        | 0                 | 2950               | 10              | 18            | 100                | 37              | 7               |
| STE GEN                    |          | 20          | 0                | 0          | 0            | 20                | 0          | 0.0      | 0.0        | 0                 | 3080               | 12              | 16            | 100                | 36              | 7               |
| TOTALS & AVE               |          | 180         | 80               | 0          | 0            | 100               | 0          | 58.0     | 0.0        | 0                 | 2641               | 10              | 18            | 86                 | 36              | 7               |
| PINKSTAFF                  |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY                  |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 1750               | 4               | 17            | 150                | 37              | 6               |
| TOTALS & AVE               |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 1750               | 4               | 17            | 150                | 37              | 6               |
| PINKSTAFF E                |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| MCCLOSKEY                  |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 1640               | 6               | 14            | 150                | 37              | 6               |
| TOTALS & AVE               |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 1640               | 6               | 14            | 150                | 37              | 6               |
| PITTSBURG                  |          | 20          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| AUX VASES                  |          | 20          | 0                | 0          | 0            | 20                | 0          | 100.0    | 0.0        | 0                 | 2570               | 8               | 18            | 100                | 37              | 7               |
| TOTALS & AVE               |          | 20          | 0                | 0          | 0            | 20                | 0          | 100.0    | 0.0        | 0                 | 2570               | 8               | 18            | 100                | 37              | 7               |
| PIXLEY                     |          | 20          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS                    |          | 20          | 0                | 0          | 0            | 20                | 0          | 0.0      | 0.0        | 0                 | 2680               | 9               | 17            | 50                 | 35              | 8               |
| TOTALS & AVE               |          | 20          | 0                | 0          | 0            | 20                | 0          | 0.0      | 0.0        | 0                 | 2680               | 9               | 17            | 50                 | 35              | 8               |
| PLAINVIEW                  |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN                |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 410                | 5               | 18            | 100                | 34              | 10              |
| TOTALS & AVE               |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 410                | 5               | 18            | 100                | 34              | 10              |
| PLAINVIEW S                |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN                |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 444                | 8               | 18            | 100                | 34              | 10              |
| TOTALS & AVE               |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 444                | 8               | 18            | 100                | 34              | 10              |
| POSEN                      |          | 50          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| TRENTON                    |          | 50          | 0                | 0          | 0            | 50                | 0          | 33.3     | 0.0        | 0                 | 3900               | 25              | 11            | 10                 | 37              | 8               |
| TOTALS & AVE               |          | 50          | 0                | 0          | 0            | 50                | 0          | 33.3     | 0.0        | 0                 | 3900               | 25              | 11            | 10                 | 37              | 8               |
| POSEN N                    |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| TRENTON                    |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 4015               | 15              | 11            | 10                 | 37              | 8               |
| TOTALS & AVE               |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 4015               | 15              | 11            | 10                 | 37              | 8               |
| POSEN S                    |          | 50          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| BENOIST                    |          | 50          | 0                | 0          | 0            | 50                | 0          | 0.0      | 0.0        | 0                 | 1255               | 7               | 18            | 100                | 34              | 9               |
| TOTALS & AVE               |          | 50          | 0                | 0          | 0            | 50                | 0          | 0.0      | 0.0        | 0                 | 1255               | 7               | 18            | 100                | 34              | 9               |
| POSEY                      |          | 260         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS                    |          | 250         | 0                | 0          | 0            | 220               | 30         | 94.7     | 100.0      | 1                 | 1100               | 7               | 19            | 150                | 36              | 7               |
| DEVONIAN                   |          | 10          | 0                | 0          | 0            | 10                | 0          | 100.0    | 0.0        | 0                 | 2675               | 5               | 18            | 200                | 38              | 11              |
| TOTALS & AVE               |          | 260         | 0                | 0          | 0            | 230               | 30         | 95.0     | 100.0      | 1                 | 1144               | 7               | 19            | 151                | 36              | 7               |
| POSEY E                    |          | 460         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| DEV-SIL                    |          | 460         | 0                | 0          | 0            | 250               | 210        | 87.5     | 100.0      | 0                 | 2725               | 25              | 18            | 200                | 38              | 11              |
| TOTALS & AVE               |          | 460         | 0                | 0          | 0            | 250               | 210        | 87.5     | 100.0      | 0                 | 2725               | 25              | 18            | 200                | 38              | 11              |
| POSEY W                    |          | 10          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| DEVONIAN                   |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 2585               | 15              | 15            | 30                 | 37              | 11              |
| TOTALS & AVE               |          | 10          | 0                | 0          | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 2585               | 15              | 15            | 30                 | 37              | 11              |
| PRENTICE                   |          | 30          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN                |          | 30          | 0                | 0          | 0            | 30                | 0          | 0.0      | 0.0        | 0                 | 270                | 10              | 18            | 100                | 30              | 24              |
| TOTALS & AVE               |          | 30          | 0                | 0          | 0            | 30                | 0          | 0.0      | 0.0        | 0                 | 270                | 10              | 18            | 100                | 30              | 24              |
| PYRAMIO                    |          | 100         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| DEVONIAN                   |          | 100         | 0                | 0          | 0            | 100               | 0          | 0.0      | 0.0        | 0                 | 3100               | 6               | 15            | 100                | 36              | 6               |
| TOTALS & AVE               |          | 100         | 0                | 0          | 0            | 100               | 0          | 0.0      | 0.0        | 0                 | 3100               | 6               | 15            | 100                | 36              | 6               |
| RACCOON LAKE               |          | 380         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| CYPRESS                    |          | 240         | 130              | 0          | 0            | 90                | 20         | 0.0      | 50.0       | 0                 | 1625               | 15              | 18            | 100                | 34              | 11              |
| BENOIST                    |          | 20          | 20               | 0          | 0            | 0                 | 0          | 0.0      | 0.0        | 0                 | 1715               | 15              | 17            | 100                | 37              | 6               |
| STE GEN                    |          | 290         | 0                | 270        | 0            | 20                | 0          | 0.0      | 0.0        | 0                 | 1909               | 12              | 13            | 341                | 36              | 7               |
| DEV-SIL                    |          | 270         | 0                | 0          | 90           | 180               | 0          | 0.0      | 0.0        | 0                 | 3300               | 10              | 14            | 40                 | 40              | 3               |
| TOTALS & AVE               |          | 820         | 150              | 270        | 90           | 290               | 20         | 0.0      | 50.0       | 0                 | 2174               | 12              | 15            | 167                | 36              | 7               |
| RALEIGH                    |          | 570         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS                |          | 20          | 0                | 0          | 10           | 10                | 0          | 100.0    | 0.0        | 0                 | 2230               | 20              | 18            | 100                | 35              | 8               |
| CYPRESS                    |          | 440         | 440              | 0          | 0            | 0                 | 0          | 0.0      | 0.0        | 0                 | 2530               | 10              | 18            | 80                 | 34              | 9               |
| PT CK GROUP                |          | 10          | 0                | 0          | 10           | 0                 | 0          | 0.0      | 0.0        | 0                 | 2750               | 5               | 17            | 50                 | 37              | 6               |
| AUX VASES                  |          | 80          | 0                | 70         | 0            | 10                | 0          | 0.0      | 0.0        | 0                 | 2900               | 10              | 22            | 300                | 38              | 5               |
| STE GEN                    |          | 20          | 0                | 0          | 0            | 20                | 0          | 100.0    | 0.0        | 0                 | 3050               | 7               | 14            | 70                 | 38              | 5               |
| TOTALS & AVE               |          | 570         | 440              | 70         | 20           | 40                | 0          | 75.0     | 0.0        | 0                 | 2575               | 10              | 18            | 111                | 35              | 8               |
| RALEIGH S                  |          | 370         |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| WALTERSBURG                |          | 60          | 0                | 0          | 0            | 60                | 0          | 100.0    | 0.0        | 0                 | 2050               | 10              | 19            | 150                | 39              | 5               |
| BETHEL                     |          | 10          | 0                | 0          | 10           | 0                 | 0          | 0.0      | 0.0        | 0                 | 2750               | 8               | 18            | 50                 | 37              | 6               |
| AUX VASES                  |          | 300         | 230              | 0          | 0            | 70                | 0          | 57.1     | 0.0        | 0                 | 2860               | 16              | 22            | 300                | 40              | 4               |
| TOTALS & AVE               |          | 370         | 230              | 0          | 10           | 130               | 0          | 76.9     | 0.0        | 0                 | 2770               | 15              | 22            | 280                | 40              | 4               |
| RAYMOND                    |          | 60          |                  |            |              |                   |            |          |            |                   |                    |                 |               |                    |                 |                 |
| PENNSYLVNIN                |          | 60          | 0                | 0          | 0            | 60                | 0          | 0.0      | 0.0        | 0                 | 590                | 10              | 18            | 100                | 35              | 8               |
| TOTALS & AVE               |          | 60          | 0                | 0          | 0            | 60                | 0          | 0.0      | 0.0        | 0                 | 590                | 10              | 18            | 100                | 35              | 8               |

| Field name   |              | Areal<br>acrea | Waterflood<br>acres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|--------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|              |              |                |                     |                  |      | Acree             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name     | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| RAYMONO E    |              | 60             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN  |              | 60             | 30                  | 20               | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 595                | 10                     | 18                   | 100                       | 34                     | 10                     |
| TOTALS & AVE |              | 60             | 30                  | 20               | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 595                | 10                     | 18                   | 100                       | 34                     | 10                     |
| RAYMONO S    |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN  |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 600                | 6                      | 18                   | 100                       | 34                     | 10                     |
| TOTALS & AVE |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 600                | 6                      | 18                   | 100                       | 34                     | 10                     |
| RESERVOIR    |              | 250            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      |              | 240            | 40                  | 0                | 0    | 200               | 0    | 40.0           | 0.0   | 0                       | 2450               | 13                     | 17                   | 100                       | 37                     | 6                      |
| SALEM        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3030               | 12                     | 14                   | 50                        | 39                     | 4                      |
| TOTALS & AVE |              | 250            | 40                  | 0                | 0    | 210               | 0    | 38.1           | 0.0   | 0                       | 2471               | 13                     | 17                   | 98                        | 37                     | 6                      |
| RICHVIEW     |              | 730            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS      |              | 730            | 100                 | 0                | 0    | 470               | 160  | 88.1           | 100.0 | 1                       | 1500               | 12                     | 18                   | 100                       | 39                     | 4                      |
| TOTALS & AVE |              | 730            | 100                 | 0                | 0    | 470               | 160  | 88.1           | 100.0 | 1                       | 1500               | 12                     | 18                   | 100                       | 39                     | 4                      |
| RIOGWAY      |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PALESTINE    |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1730               | 18                     | 18                   | 200                       | 30                     | 18                     |
| MCCLOSKEY    |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2840               | 6                      | 14                   | 100                       | 38                     | 5                      |
| TOTALS & AVE |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 2008               | 12                     | 17                   | 175                       | 32                     | 15                     |
| RIFFLE       |              | 80             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN     |              | 80             | 0                   | 0                | 0    | 80                | 0    | 0.0            | 0.0   | 0                       | 2735               | 7                      | 15                   | 100                       | 36                     | 7                      |
| TOTALS & AVE |              | 80             | 0                   | 0                | 0    | 80                | 0    | 0.0            | 0.0   | 0                       | 2735               | 7                      | 15                   | 100                       | 36                     | 7                      |
| RINARD       |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY    |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3145               | 5                      | 16                   | 100                       | 39                     | 5                      |
| TOTALS & AVE |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3145               | 5                      | 16                   | 100                       | 39                     | 5                      |
| RINARO N     |              | 240            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      |              | 240            | 0                   | 0                | 0    | 220               | 20   | 43.8           | 100.0 | 1                       | 3145               | 5                      | 17                   | 150                       | 39                     | 4                      |
| TOTALS & AVE |              | 240            | 0                   | 0                | 0    | 220               | 20   | 43.8           | 100.0 | 1                       | 3145               | 5                      | 17                   | 150                       | 39                     | 4                      |
| RINARO S     |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3268               | 4                      | 16                   | 125                       | 39                     | 4                      |
| TOTALS & AVE |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3268               | 4                      | 16                   | 125                       | 39                     | 4                      |
| RITTER       |              | 110            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      |              | 110            | 0                   | 0                | 0    | 110               | 0    | 0.0            | 0.0   | 0                       | 3215               | 5                      | 17                   | 150                       | 38                     | 5                      |
| TOTALS & AVE |              | 110            | 0                   | 0                | 0    | 110               | 0    | 0.0            | 0.0   | 0                       | 3215               | 5                      | 17                   | 150                       | 38                     | 5                      |
| RITTER N     |              | 180            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      |              | 180            | 0                   | 130              | 0    | 50                | 0    | 0.0            | 0.0   | 0                       | 3200               | 6                      | 16                   | 50                        | 39                     | 6                      |
| TOTALS & AVE |              | 180            | 0                   | 130              | 0    | 50                | 0    | 0.0            | 0.0   | 0                       | 3200               | 6                      | 16                   | 50                        | 39                     | 6                      |
| RIVERTON S   |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN     |              | 40             | 0                   | 0                | 0    | 40                | 0    | 75.0           | 0.0   | 0                       | 1590               | 8                      | 11                   | 20                        | 38                     | 5                      |
| TOTALS & AVE |              | 40             | 0                   | 0                | 0    | 40                | 0    | 75.0           | 0.0   | 0                       | 1590               | 8                      | 11                   | 20                        | 38                     | 5                      |
| ROACHES      |              | 180            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2000               | 9                      | 16                   | 150                       | 38                     | 5                      |
| STE GEN      |              | 170            | 0                   | 0                | 0    | 150               | 20   | 10.0           | 50.0  | 0                       | 2170               | 14                     | 17                   | 100                       | 37                     | 6                      |
| TOTALS & AVE |              | 180            | 0                   | 0                | 0    | 160               | 20   | 15.6           | 50.0  | 0                       | 2164               | 14                     | 17                   | 102                       | 37                     | 6                      |
| ROACHES N    |              | 420            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST      |              | 420            | 400                 | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1910               | 8                      | 16                   | 150                       | 37                     | 6                      |
| SPAR MTN     |              | 60             | 0                   | 0                | 60   | 0                 | 0    | 0.0            | 0.0   | 0                       | 2115               | 8                      | 17                   | 100                       | 34                     | 8                      |
| TRENTON      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 4850               | 99                     | 10                   | 5                         | 42                     | 3                      |
| TOTALS & AVE |              | 490            | 400                 | 0                | 60   | 30                | 0    | 33.3           | 0.0   | 0                       | 2533               | 10                     | 15                   | 115                       | 38                     | 6                      |
| ROBY         |              | 210            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN     |              | 210            | 0                   | 0                | 0    | 180               | 30   | 40.0           | 66.7  | 2                       | 1775               | 5                      | 14                   | 50                        | 38                     | 5                      |
| TOTALS & AVE |              | 210            | 0                   | 0                | 0    | 180               | 30   | 40.0           | 66.7  | 2                       | 1775               | 5                      | 14                   | 50                        | 38                     | 5                      |
| ROBY N       |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN     |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 1700               | 5                      | 15                   | 20                        | 38                     | 5                      |
| TOTALS & AVE |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 1700               | 5                      | 15                   | 20                        | 38                     | 5                      |
| ROBY W       |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| HIBBARO      |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 1655               | 5                      | 13                   | 30                        | 37                     | 7                      |
| TOTALS & AVE |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 1655               | 5                      | 13                   | 30                        | 37                     | 7                      |
| ROCHESTER    |              | 370            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN  |              | 230            | 150                 | 0                | 0    | 80                | 0    | 16.7           | 0.0   | 0                       | 1300               | 12                     | 19                   | 120                       | 32                     | 13                     |
| WALTERSBURG  |              | 210            | 180                 | 0                | 0    | 30                | 0    | 66.7           | 0.0   | 0                       | 1950               | 20                     | 18                   | 200                       | 37                     | 6                      |
| TOTALS & AVE |              | 440            | 330                 | 0                | 0    | 110               | 0    | 30.3           | 0.0   | 0                       | 1692               | 16                     | 18                   | 168                       | 35                     | 9                      |
| ROLANO C     |              | 10290          |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN  |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0          | 0.0   | 0                       | 1675               | 10                     | 18                   | 130                       | 36                     | 7                      |
| OEGONIA      |              | 40             | 0                   | 0                | 0    | 40                | 0    | 50.0           | 0.0   | 0                       | 2069               | 8                      | 18                   | 43                        | 35                     | 8                      |
| CLORE        |              | 70             | 0                   | 0                | 0    | 70                | 0    | 100.0          | 0.0   | 0                       | 1997               | 7                      | 17                   | 64                        | 36                     | 6                      |
| PALESTINE    |              | 40             | 0                   | 0                | 0    | 40                | 0    | 100.0          | 0.0   | 0                       | 2085               | 5                      | 20                   | 200                       | 34                     | 10                     |
| WALTERSBURG  |              | 1870           | 930                 | 0                | 0    | 410               | 530  | 78.4           | 98.1  | 1                       | 2200               | 15                     | 18                   | 150                       | 31                     | 11                     |
| TAR SPRINGS  |              | 550            | 220                 | 0                | 140  | 190               | 0    | 50.0           | 0.0   | 0                       | 2312               | 15                     | 19                   | 86                        | 35                     | 6                      |
| HAROLINSBURG |              | 1820           | 260                 | 1270             | 0    | 240               | 50   | 64.7           | 100.0 | 2                       | 2520               | 12                     | 19                   | 239                       | 37                     | 6                      |
| GOLCONOA     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2500               | 7                      | 16                   | 20                        | 35                     | 7                      |
| CYPRESS      |              | 2180           | 440                 | 200              | 130  | 1320              | 90   | 65.3           | 77.8  | 2                       | 2625               | 13                     | 18                   | 89                        | 36                     | 6                      |
| PT CK GROUP  |              | 2230           | 730                 | 0                | 130  | 760               | 610  | 87.0           | 100.0 | 1                       | 2795               | 14                     | 18                   | 50                        | 37                     | 6                      |
| AUX VASES    |              | 4100           | 690                 | 1030             | 260  | 1760              | 1050 | 85.7           | 88.7  | 0                       | 2931               | 16                     | 15                   | 42                        | 39                     | 5                      |
| STE GEN      |              | 2050           | 240                 | 0                | 140  | 1470              | 200  | 60.4           | 52.6  | 0                       | 3010               | 9                      | 17                   | 124                       | 38                     | 6                      |
| ST LOUIS     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 3170               | 10                     | 12                   | 30                        | 37                     | 7                      |
| SALEM        |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 4089               | 19                     | 10                   | 20                        | 38                     | 6                      |
| ULLIN        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 4050               | 14                     | 12                   | 20                        | 38                     | 6                      |
| TOTALS & AVE |              | 15050          | 3510                | 2500             | 800  | 6400              | 2530 | 73.8           | 90.4  | 6                       | 2704               | 14                     | 17                   | 95                        | 37                     | 6                      |
| ROLANO W     |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES    |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2930               | 15                     | 15                   | 40                        | 40                     | 5                      |
| TOTALS & AVE |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2930               | 15                     | 15                   | 40                        | 40                     | 5                      |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name       |              | Areal<br>acres | Waterflood<br>acres |                  |       | Remaining primary |       |               |    | No. of<br>SWD*<br>wells | Average properties |                        |                     |                           |                        |                        |
|------------------|--------------|----------------|---------------------|------------------|-------|-------------------|-------|---------------|----|-------------------------|--------------------|------------------------|---------------------|---------------------------|------------------------|------------------------|
|                  |              |                |                     |                  |       | Acres             |       | % Active      |    |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poro-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name         | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge  | Inte-<br>rior     | Edge  | Inte-<br>rior |    |                         |                    |                        |                     |                           |                        |                        |
| ROSE HILL        | 10           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| MCCLOSKEY        | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 2695                    | 10                 | 13                     | 275                 | 39                        | 4                      |                        |
| TOTALS & AVE     | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 2695                    | 10                 | 13                     | 275                 | 39                        | 4                      |                        |
| RUARK            | 470          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| PENNSYLVNIN      | 370          | 70             | 0                   | 0                | 280   | 20                | 63.6  | 50.0          | 2  | 1600                    | 10                 | 18                     | 100                 | 33                        | 12                     |                        |
| BETHEL           | 90           | 0              | 0                   | 0                | 90    | 0                 | 37.5  | 0.0           | 0  | 2075                    | 11                 | 17                     | 40                  | 36                        | 6                      |                        |
| AUX VASES        | 30           | 0              | 0                   | 0                | 30    | 0                 | 66.7  | 0.0           | 0  | 2150                    | 7                  | 18                     | 75                  | 37                        | 6                      |                        |
| OHARA            | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 2275                    | 5                  | 17                     | 150                 | 37                        | 7                      |                        |
| TOTALS & AVE     | 500          | 70             | 0                   | 0                | 410   | 20                | 56.6  | 50.0          | 2  | 1725                    | 10                 | 18                     | 87                  | 34                        | 10                     |                        |
| RUARK W C        | 680          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| WALTERSBURG      | 50           | 0              | 0                   | 0                | 50    | 0                 | 40.0  | 0.0           | 0  | 1800                    | 10                 | 18                     | 50                  | 38                        | 8                      |                        |
| CYPRESS          | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 2165                    | 9                  | 18                     | 80                  | 35                        | 8                      |                        |
| BETHEL           | 580          | 430            | 0                   | 0                | 140   | 10                | 60.0  | 100.0         | 0  | 2220                    | 20                 | 17                     | 40                  | 36                        | 6                      |                        |
| STE GEN          | 240          | 0              | 0                   | 160              | 80    | 0                 | 83.3  | 0.0           | 0  | 2350                    | 7                  | 14                     | 40                  | 38                        | 6                      |                        |
| TOTALS & AVE     | 880          | 430            | 0                   | 160              | 280   | 10                | 64.5  | 100.0         | 0  | 2220                    | 16                 | 17                     | 41                  | 36                        | 6                      |                        |
| RURAL HILL N     | 100          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| CYPRESS          | 90           | 90             | 0                   | 0                | 0     | 0                 | 0.0   | 0.0           | 0  | 2400                    | 9                  | 15                     | 25                  | 35                        | 8                      |                        |
| SPAR MTN         | 10           | 0              | 0                   | 10               | 0     | 0                 | 0.0   | 0.0           | 0  | 3325                    | 8                  | 14                     | 30                  | 37                        | 6                      |                        |
| TOTALS & AVE     | 100          | 90             | 0                   | 10               | 0     | 0                 | 0.0   | 0.0           | 0  | 2483                    | 9                  | 15                     | 25                  | 35                        | 8                      |                        |
| RUSHVILLE        | 10           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| DEV-SIL          | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 690                     | 5                  | 13                     | 30                  | 37                        | 6                      |                        |
| TOTALS & AVE     | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 690                     | 5                  | 13                     | 30                  | 37                        | 6                      |                        |
| RUSHVILLE NW     | 20           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| SILURIAN         | 20           | 0              | 0                   | 0                | 20    | 0                 | 50.0  | 0.0           | 0  | 670                     | 3                  | 13                     | 20                  | 36                        | 7                      |                        |
| TOTALS & AVE     | 20           | 0              | 0                   | 0                | 20    | 0                 | 50.0  | 0.0           | 0  | 670                     | 3                  | 13                     | 20                  | 36                        | 7                      |                        |
| RUSSELLVILLE GAS | 10           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| MCCLOSKEY        | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1560                    | 7                  | 17                     | 100                 | 35                        | 8                      |                        |
| TOTALS & AVE     | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1560                    | 7                  | 17                     | 100                 | 35                        | 8                      |                        |
| RUSSELLVILLE W   | 10           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| SPAR MTN         | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1560                    | 22                 | 14                     | 100                 | 37                        | 6                      |                        |
| TOTALS & AVE     | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1560                    | 22                 | 14                     | 100                 | 37                        | 6                      |                        |
| ST FRANCISVILLE  | 950          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| BETHEL           | 950          | 70             | 30                  | 0                | 530   | 320               | 75.8  | 83.3          | 0  | 1850                    | 6                  | 17                     | 70                  | 32                        | 13                     |                        |
| TOTALS & AVE     | 950          | 70             | 30                  | 0                | 530   | 320               | 75.8  | 83.3          | 0  | 1850                    | 6                  | 17                     | 70                  | 32                        | 13                     |                        |
| ST FRANCISVILLE  | 380          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| PENNSYLVNIN      | 60           | 0              | 0                   | 0                | 60    | 0                 | 60.0  | 0.0           | 0  | 1250                    | 10                 | 18                     | 100                 | 30                        | 20                     |                        |
| WALTERSBURG      | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1300                    | 6                  | 18                     | 50                  | 37                        | 8                      |                        |
| HARDINSBURG      | 40           | 0              | 0                   | 0                | 40    | 0                 | 100.0 | 0.0           | 0  | 1460                    | 6                  | 17                     | 50                  | 35                        | 8                      |                        |
| CYPRESS          | 40           | 0              | 0                   | 0                | 40    | 0                 | 100.0 | 0.0           | 0  | 1600                    | 15                 | 17                     | 50                  | 36                        | 7                      |                        |
| BETHEL           | 250          | 100            | 60                  | 0                | 90    | 0                 | 80.0  | 0.0           | 0  | 1750                    | 20                 | 18                     | 50                  | 40                        | 4                      |                        |
| SPAR MTN         | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 1930                    | 6                  | 13                     | 20                  | 36                        | 7                      |                        |
| TOTALS & AVE     | 410          | 100            | 60                  | 0                | 250   | 0                 | 79.2  | 0.0           | 0  | 1677                    | 16                 | 18                     | 54                  | 38                        | 6                      |                        |
| ST JACOB         | 1050         |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| TRENTON          | 1050         | 890            | 0                   | 0                | 110   | 50                | 60.0  | 33.3          | 0  | 2350                    | 20                 | 10                     | 10                  | 40                        | 5                      |                        |
| TOTALS & AVE     | 1050         | 890            | 0                   | 0                | 110   | 50                | 60.0  | 33.3          | 0  | 2350                    | 20                 | 10                     | 10                  | 40                        | 5                      |                        |
| ST JACOB E       | 10           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| HAROLD           | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1840                    | 12                 | 12                     | 15                  | 23                        | 99                     |                        |
| TOTALS & AVE     | 10           | 0              | 0                   | 0                | 10    | 0                 | 0.0   | 0.0           | 0  | 1840                    | 12                 | 12                     | 15                  | 23                        | 99                     |                        |
| ST JAMES         | 2270         |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| GOLCONOA         | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 1550                    | 15                 | 13                     | 50                  | 34                        | 9                      |                        |
| CYPRESS          | 1890         | 1150           | 80                  | 60               | 410   | 190               | 39.4  | 100.0         | 5  | 1596                    | 16                 | 19                     | 190                 | 37                        | 6                      |                        |
| BENOIST          | 10           | 0              | 0                   | 10               | 0     | 0                 | 0.0   | 0.0           | 0  | 1750                    | 8                  | 16                     | 30                  | 36                        | 7                      |                        |
| SPAR MTN         | 100          | 0              | 0                   | 80               | 20    | 0                 | 0.0   | 0.0           | 0  | 1860                    | 16                 | 18                     | 180                 | 38                        | 7                      |                        |
| CARPER           | 670          | 480            | 0                   | 110              | 60    | 20                | 66.7  | 66.7          | 1  | 3122                    | 40                 | 12                     | 10                  | 37                        | 6                      |                        |
| TOTALS & AVE     | 2680         | 1630           | 80                  | 260              | 500   | 210               | 42.3  | 96.8          | 6  | 2298                    | 22                 | 16                     | 107                 | 37                        | 6                      |                        |
| ST PAUL          | 380          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| BENOIST          | 240          | 0              | 0                   | 0                | 160   | 80                | 84.6  | 100.0         | 0  | 1900                    | 9                  | 16                     | 50                  | 34                        | 9                      |                        |
| SPAR MTN         | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 2080                    | 6                  | 15                     | 70                  | 38                        | 6                      |                        |
| CARPER           | 290          | 0              | 0                   | 0                | 190   | 100               | 62.5  | 100.0         | 0  | 3290                    | 28                 | 12                     | 10                  | 36                        | 8                      |                        |
| TOTALS & AVE     | 540          | 0              | 0                   | 0                | 360   | 180               | 73.4  | 100.0         | 0  | 2993                    | 19                 | 13                     | 19                  | 36                        | 8                      |                        |
| STE MARIE        | 1110         |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| STE GEN          | 1110         | 190            | 580                 | 0                | 280   | 50                | 62.5  | 75.0          | 0  | 2820                    | 8                  | 16                     | 200                 | 37                        | 7                      |                        |
| TOTALS & AVE     | 1110         | 190            | 580                 | 0                | 280   | 50                | 62.5  | 75.0          | 0  | 2820                    | 8                  | 16                     | 200                 | 37                        | 7                      |                        |
| STE MARIE E      | 80           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| STE GEN          | 80           | 0              | 0                   | 0                | 80    | 0                 | 33.3  | 0.0           | 0  | 2685                    | 10                 | 16                     | 200                 | 38                        | 5                      |                        |
| TOTALS & AVE     | 80           | 0              | 0                   | 0                | 80    | 0                 | 33.3  | 0.0           | 0  | 2685                    | 10                 | 16                     | 200                 | 38                        | 5                      |                        |
| STE MARIE W      | 400          |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| AUX VASES        | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 2720                    | 25                 | 17                     | 40                  | 37                        | 7                      |                        |
| MCCLOSKEY        | 400          | 0              | 0                   | 0                | 360   | 40                | 83.3  | 25.0          | 0  | 2810                    | 6                  | 17                     | 180                 | 40                        | 4                      |                        |
| TOTALS & AVE     | 410          | 0              | 0                   | 0                | 370   | 40                | 83.8  | 25.0          | 0  | 2802                    | 6                  | 17                     | 167                 | 40                        | 4                      |                        |
| SAILOR SPRINGS C | 70           |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| TAR SPRINGS      | 50           | 0              | 0                   | 0                | 50    | 0                 | 40.0  | 0.0           | 0  | 2330                    | 6                  | 16                     | 84                  | 37                        | 6                      |                        |
| SPAR MTN         | 20           | 0              | 0                   | 0                | 20    | 0                 | 0.0   | 0.0           | 0  | 3015                    | 4                  | 17                     | 300                 | 33                        | 10                     |                        |
| TOTALS & AVE     | 70           | 0              | 0                   | 0                | 70    | 0                 | 28.6  | 0.0           | 0  | 2474                    | 5                  | 16                     | 129                 | 36                        | 7                      |                        |
| SAILOR SPRINGS C | 16980        |                |                     |                  |       |                   |       |               |    |                         |                    |                        |                     |                           |                        |                        |
| TAR SPRINGS      | 720          | 160            | 0                   | 310              | 150   | 100               | 40.0  | 77.8          | 2  | 2308                    | 12                 | 16                     | 84                  | 37                        | 6                      |                        |
| GLEN OEAN        | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 2390                    | 8                  | 16                     | 50                  | 38                        | 5                      |                        |
| CYPRESS          | 8970         | 4190           | 350                 | 60               | 3660  | 710               | 71.4  | 70.8          | 10 | 2586                    | 15                 | 17                     | 42                  | 39                        | 5                      |                        |
| BETHEL           | 660          | 0              | 0                   | 50               | 570   | 40                | 77.8  | 75.0          | 1  | 2723                    | 20                 | 15                     | 50                  | 37                        | 7                      |                        |
| AUX VASES        | 1970         | 0              | 40                  | 70               | 1750  | 110               | 60.1  | 54.5          | 7  | 2825                    | 13                 | 17                     | 45                  | 37                        | 6                      |                        |
| STE GEN          | 6710         | 850            | 640                 | 780              | 4020  | 420               | 60.4  | 56.3          | 10 | 2900                    | 11                 | 16                     | 292                 | 38                        | 5                      |                        |
| ST LOUIS         | 10           | 0              | 0                   | 0                | 10    | 0                 | 100.0 | 0.0           | 0  | 3310                    | 11                 | 12                     | 30                  | 39                        | 5                      |                        |
| TOTALS & AVE     | 19050        | 5200           | 1030                | 1270             | 10170 | 1380              | 65.1  | 65.7          | 30 | 2698                    | 13                 | 17                     | 116                 | 38                        | 5                      |                        |



| Field name       |              | Areal<br>acres | Waterflood<br>acres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|------------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                  |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name         | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| SAILOR SPRINGS E |              | 170            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 110            | 0                   | 0                | 0    | 100               | 10   | 22.2           | 0.0   | 0                       | 2700               | 8                      | 18                   | 50                        | 36                     | 7                      |
| MCCLOSKEY        |              | 40             | 0                   | 0                | 0    | 40                | 0    | 25.0           | 0.0   | 0                       | 3020               | 7                      | 17                   | 300                       | 37                     | 6                      |
| SALEM            |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0          | 0.0   | 0                       | 3552               | 6                      | 12                   | 30                        | 38                     | 5                      |
| TOTALS & AVE     |              | 170            | 0                   | 0                | 0    | 160               | 10   | 32.6           | 0.0   | 0                       | 2850               | 8                      | 17                   | 103                       | 36                     | 7                      |
| SAILOR SPRINGS N |              | 60             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN          |              | 60             | 0                   | 0                | 0    | 60                | 0    | 0.0            | 0.0   | 0                       | 2980               | 4                      | 17                   | 300                       | 37                     | 6                      |
| TOTALS & AVE     |              | 60             | 0                   | 0                | 0    | 60                | 0    | 0.0            | 0.0   | 0                       | 2980               | 4                      | 17                   | 300                       | 37                     | 6                      |
| SALEM C          |              | 13580          |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENDIST          |              | 10830          | 9940                | 0                | 30   | 800               | 60   | 84.0           | 83.3  | 0                       | 1794               | 27                     | 18                   | 147                       | 37                     | 5                      |
| AUX VASES        |              | 7590           | 7400                | 0                | 0    | 190               | 0    | 91.7           | 0.0   | 1                       | 1849               | 25                     | 16                   | 27                        | 37                     | 5                      |
| STE GEN          |              | 10540          | 7930                | 110              | 200  | 1400              | 900  | 74.4           | 79.2  | 18                      | 2100               | 16                     | 14                   | 245                       | 37                     | 6                      |
| ST LOUIS         |              | 180            | 0                   | 0                | 180  | 0                 | 0    | 0.0            | 0.0   | 0                       | 2100               | 6                      | 13                   | 30                        | 37                     | 6                      |
| SALEM            |              | 1350           | 0                   | 0                | 1330 | 20                | 0    | 100.0          | 0.0   | 0                       | 2150               | 17                     | 16                   | 100                       | 37                     | 6                      |
| DEVONIAN         |              | 5680           | 5680                | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 3450               | 40                     | 15                   | 40                        | 42                     | 3                      |
| TRENTON          |              | 1920           | 0                   | 0                | 1920 | 0                 | 0    | 0.0            | 0.0   | 0                       | 4500               | 50                     | 12                   | 5                         | 37                     | 8                      |
| TOTALS & AVE     |              | 38090          | 30950               | 110              | 3660 | 2410              | 960  | 79.2           | 79.5  | 19                      | 2502               | 26                     | 16                   | 102                       | 38                     | 5                      |
| SAMSVILLE        |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| WALTERSBURG      |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2420               | 7                      | 16                   | 75                        | 38                     | 5                      |
| TOTALS & AVE     |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 2420               | 7                      | 16                   | 75                        | 38                     | 5                      |
| SAMSVILLE N      |              | 200            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BETHFL           |              | 200            | 0                   | 60               | 0    | 140               | 0    | 16.7           | 0.0   | 0                       | 2900               | 6                      | 17                   | 30                        | 38                     | 7                      |
| TOTALS & AVE     |              | 200            | 0                   | 60               | 0    | 140               | 0    | 16.7           | 0.0   | 0                       | 2900               | 6                      | 17                   | 30                        | 38                     | 7                      |
| SAMSVILLE NW     |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| OHARA            |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3190               | 4                      | 17                   | 150                       | 38                     | 4                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3190               | 4                      | 17                   | 150                       | 38                     | 4                      |
| SAMSVILLE W      |              | 80             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN          |              | 80             | 0                   | 0                | 0    | 80                | 0    | 20.0           | 0.0   | 0                       | 3260               | 10                     | 15                   | 50                        | 38                     | 5                      |
| TOTALS & AVE     |              | 80             | 0                   | 0                | 0    | 80                | 0    | 20.0           | 0.0   | 0                       | 3260               | 10                     | 15                   | 50                        | 38                     | 5                      |
| SANODVAL         |              | 500            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 20             | 0                   | 0                | 0    | 20                | 0    | 50.0           | 0.0   | 0                       | 1400               | 10                     | 18                   | 100                       | 37                     | 6                      |
| BENDIST          |              | 480            | 0                   | 0                | 0    | 260               | 220  | 100.0          | 100.0 | 1                       | 1540               | 20                     | 18                   | 100                       | 35                     | 7                      |
| GENEVA           |              | 240            | 0                   | 0                | 0    | 240               | 0    | 100.0          | 0.0   | 4                       | 2920               | 9                      | 14                   | 30                        | 38                     | 6                      |
| TOTALS & AVE     |              | 740            | 0                   | 0                | 0    | 520               | 220  | 98.1           | 100.0 | 5                       | 1787               | 16                     | 17                   | 87                        | 36                     | 7                      |
| SANODVAL W       |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 1                       | 1420               | 4                      | 18                   | 100                       | 37                     | 6                      |
| BENDIST          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1550               | 15                     | 17                   | 100                       | 36                     | 7                      |
| TOTALS & AVE     |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 1                       | 1523               | 10                     | 17                   | 100                       | 36                     | 7                      |
| SANTA FE         |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 950                | 10                     | 18                   | 100                       | 34                     | 9                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 950                | 10                     | 18                   | 100                       | 34                     | 9                      |
| SCHNELL          |              | 50             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY        |              | 50             | 0                   | 0                | 0    | 50                | 0    | 40.0           | 0.0   | 0                       | 3000               | 5                      | 16                   | 100                       | 39                     | 6                      |
| TOTALS & AVE     |              | 50             | 0                   | 0                | 0    | 50                | 0    | 40.0           | 0.0   | 0                       | 3000               | 5                      | 16                   | 100                       | 39                     | 6                      |
| SCHNELL E        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3115               | 4                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3115               | 4                      | 16                   | 100                       | 38                     | 5                      |
| SCIOTA           |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 519                | 16                     | 17                   | 200                       | 35                     | 8                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 519                | 16                     | 17                   | 200                       | 35                     | 8                      |
| SEMINARY         |              | 120            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY        |              | 120            | 0                   | 90               | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 3200               | 8                      | 17                   | 100                       | 38                     | 5                      |
| TOTALS & AVE     |              | 120            | 0                   | 90               | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 3200               | 8                      | 17                   | 100                       | 38                     | 5                      |
| SESSER C         |              | 1590           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 40             | 0                   | 0                | 0    | 40                | 0    | 33.3           | 0.0   | 0                       | 2450               | 10                     | 18                   | 100                       | 38                     | 6                      |
| RENAULT          |              | 340            | 140                 | 0                | 0    | 190               | 10   | 80.0           | 100.0 | 0                       | 2700               | 10                     | 16                   | 75                        | 37                     | 4                      |
| AUX VASES        |              | 1210           | 720                 | 0                | 40   | 400               | 50   | 83.3           | 100.0 | 0                       | 2650               | 15                     | 18                   | 50                        | 38                     | 5                      |
| STE GEN          |              | 100            | 0                   | 0                | 50   | 50                | 0    | 0.0            | 0.0   | 0                       | 2675               | 13                     | 16                   | 50                        | 39                     | 4                      |
| ST LOUIS         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3000               | 20                     | 13                   | 30                        | 37                     | 7                      |
| CLEAR CREEK      |              | 120            | 90                  | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 4450               | 20                     | 15                   | 30                        | 40                     | 3                      |
| TOTALS & AVE     |              | 1820           | 950                 | 0                | 90   | 720               | 60   | 74.8           | 100.0 | 0                       | 2825               | 14                     | 17                   | 52                        | 38                     | 5                      |
| SHATTUC          |              | 280            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 150            | 110                 | 0                | 0    | 40                | 0    | 66.7           | 0.0   | 0                       | 1300               | 7                      | 18                   | 100                       | 36                     | 7                      |
| BENDIST          |              | 80             | 50                  | 0                | 30   | 0                 | 0    | 0.0            | 0.0   | 0                       | 1420               | 13                     | 18                   | 100                       | 35                     | 8                      |
| TRENTON          |              | 180            | 0                   | 0                | 100  | 80                | 0    | 100.0          | 0.0   | 0                       | 4020               | 13                     | 12                   | 20                        | 40                     | 5                      |
| TOTALS & AVE     |              | 410            | 160                 | 0                | 130  | 120               | 0    | 88.9           | 0.0   | 0                       | 2765               | 11                     | 15                   | 58                        | 38                     | 6                      |
| SHATTUC N        |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENDIST          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1450               | 7                      | 18                   | 100                       | 36                     | 7                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1450               | 7                      | 18                   | 100                       | 36                     | 7                      |
| SHAWNEETOWN      |              | 70             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PALESTINE        |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 1720               | 25                     | 18                   | 200                       | 35                     | 8                      |
| WALTERSBURG      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1900               | 12                     | 20                   | 100                       | 37                     | 5                      |
| TAR SPRINGS      |              | 60             | 0                   | 0                | 0    | 60                | 0    | 0.0            | 0.0   | 0                       | 1950               | 12                     | 18                   | 75                        | 37                     | 6                      |
| CYPRESS          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2375               | 10                     | 18                   | 150                       | 38                     | 6                      |
| AUX VASES        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2750               | 10                     | 16                   | 40                        | 38                     | 6                      |
| TOTALS & AVE     |              | 130            | 0                   | 0                | 0    | 130               | 0    | 0.0            | 0.0   | 0                       | 1894               | 16                     | 18                   | 140                       | 36                     | 7                      |
| SHAWNEETOWN E    |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| WALTERSBURG      |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 1855               | 12                     | 20                   | 100                       | 37                     | 5                      |
| BETHFL           |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2480               | 8                      | 17                   | 50                        | 37                     | 6                      |
| AUX VASES        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2750               | 10                     | 16                   | 40                        | 38                     | 6                      |
| TOTALS & AVE     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 66.7           | 0.0   | 0                       | 2320               | 10                     | 18                   | 67                        | 37                     | 6                      |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name     |              | Areal acres | Waterflood acres |            |              | Remaining primary |           |          |           | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |   |
|----------------|--------------|-------------|------------------|------------|--------------|-------------------|-----------|----------|-----------|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|---|
|                |              |             |                  |            |              | Acres             |           | % Active |           |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (°API) | Vis-cosity (cp) |   |
|                | Pay name     | Pay acres   | Act-tive         | Aban-doned | Unde-veloped | Edge              | Inter-ior | Edge     | Inter-ior |                   |                    |                 |               |                    |                 |                 |   |
| SHAWNEETOWN N  |              | 50          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | AUX VASES    | 40          | 0                | 40         | 0            | 0                 | 0         | 0.0      | 0.0       | 0                 | 2740               | 10              | 16            | 40                 | 38              | 6               |   |
|                | MCCLOSKEY    | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 3050               | 6               | 14            | 130                | 36              | 7               |   |
|                | TOTALS & AVE | 50          | 0                | 40         | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2780               | 9               | 16            | 52                 | 38              | 6               |   |
| SHELBYVILLE C  |              | 110         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | AUX VASES    | 110         | 0                | 0          | 0            | 100               | 10        | 12.5     | 0.0       | 0                 | 1860               | 15              | 17            | 40                 | 34              | 8               |   |
|                | TOTALS & AVE | 110         | 0                | 0          | 0            | 100               | 10        | 12.5     | 0.0       | 0                 | 1860               | 15              | 17            | 40                 | 34              | 8               |   |
| SHUMWAY        |              | 10          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | MCCLOSKEY    | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2220               | 3               | 17            | 100                | 37              | 6               |   |
|                | TOTALS & AVE | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2220               | 3               | 17            | 100                | 37              | 6               |   |
| SICILY         |              | 70          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | SILURIAN     | 70          | 0                | 0          | 0            | 70                | 0         | 0.0      | 0.0       | 1                 | 1860               | 16              | 12            | 10                 | 39              | 5               |   |
|                | TOTALS & AVE | 70          | 0                | 0          | 0            | 70                | 0         | 0.0      | 0.0       | 1                 | 1860               | 16              | 12            | 10                 | 39              | 5               |   |
| SIGGINS        |              | 4430        |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | PENNSYLVNIN  | 4430        | 2800             | 170        | 0            | 1160              | 300       | 0.0      | 0.0       | 0                 | 400                | 32              | 18            | 60                 | 36              | 7               |   |
|                | TOTALS & AVE | 4430        | 2800             | 170        | 0            | 1160              | 300       | 0.0      | 0.0       | 0                 | 400                | 32              | 18            | 60                 | 36              | 7               |   |
| SILOAM         |              | 280         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | SILURIAN     | 280         | 0                | 0          | 0            | 280               | 0         | 66.7     | 0.0       | 0                 | 630                | 3               | 14            | 30                 | 37              | 6               |   |
|                | TOTALS & AVE | 280         | 0                | 0          | 0            | 280               | 0         | 66.7     | 0.0       | 0                 | 630                | 3               | 14            | 30                 | 37              | 6               |   |
| SLAPOUT        |              | 240         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | STE GEN      | 240         | 0                | 0          | 0            | 190               | 50        | 100.0    | 100.0     | 0                 | 2760               | 4               | 16            | 100                | 38              | 5               |   |
|                | TOTALS & AVE | 240         | 0                | 0          | 0            | 190               | 50        | 100.0    | 100.0     | 0                 | 2760               | 4               | 16            | 100                | 38              | 5               |   |
| SORENTO C      |              | 690         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | PENNSYLVNIN  | 70          | 0                | 0          | 0            | 70                | 0         | 85.7     | 0.0       | 2                 | 570                | 20              | 18            | 100                | 31              | 19              |   |
|                | LINGLE       | 640         | 0                | 40         | 0            | 510               | 90        | 16.3     | 22.2      | 0                 | 1875               | 8               | 13            | 50                 | 35              | 10              |   |
|                | TOTALS & AVE | 710         | 0                | 40         | 0            | 580               | 90        | 24.7     | 22.2      | 2                 | 1595               | 9               | 14            | 61                 | 34              | 12              |   |
| SORENTO W      |              | 10          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | DEVONIAN     | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 1880               | 5               | 13            | 50                 | 37              | 7               |   |
|                | TOTALS & AVE | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 1880               | 5               | 13            | 50                 | 37              | 7               |   |
| SPARTA         |              | 20          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | CYPRESS      | 20          | 0                | 0          | 0            | 20                | 0         | 0.0      | 0.0       | 0                 | 850                | 7               | 17            | 100                | 35              | 8               |   |
|                | TOTALS & AVE | 20          | 0                | 0          | 0            | 20                | 0         | 0.0      | 0.0       | 0                 | 850                | 7               | 17            | 100                | 35              | 8               |   |
| SPARTA S       |              | 10          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | CYPRESS      | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 880                | 8               | 17            | 100                | 35              | 8               |   |
|                | TOTALS & AVE | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 880                | 8               | 17            | 100                | 35              | 8               |   |
| SPRINGFIELD E  |              | 220         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | HIBBARO      | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 1625               | 5               | 13            | 30                 | 37              | 7               |   |
|                | SILURIAN     | 220         | 0                | 0          | 0            | 190               | 30        | 52.9     | 66.7      | 3                 | 1600               | 12              | 10            | 10                 | 39              | 4               |   |
|                | TOTALS & AVE | 230         | 0                | 0          | 0            | 200               | 30        | 55.3     | 66.7      | 3                 | 1600               | 12              | 10            | 10                 | 39              | 4               |   |
| STAUNTON       |              | 30          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | PENNSYLVNIN  | 30          | 0                | 0          | 0            | 30                | 0         | 33.3     | 0.0       | 0                 | 515                | 11              | 18            | 100                | 35              | 8               |   |
|                | TOTALS & AVE | 30          | 0                | 0          | 0            | 30                | 0         | 33.3     | 0.0       | 0                 | 515                | 11              | 18            | 100                | 35              | 8               |   |
| STAUNTON W     |              | 240         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | PENNSYLVNIN  | 240         | 60               | 0          | 0            | 180               | 0         | 87.5     | 0.0       | 2                 | 480                | 10              | 18            | 100                | 35              | 8               |   |
|                | TOTALS & AVE | 240         | 60               | 0          | 0            | 180               | 0         | 87.5     | 0.0       | 2                 | 480                | 10              | 18            | 100                | 35              | 8               |   |
| STEWARSON      |              | 300         |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | AUX VASES    | 300         | 260              | 0          | 0            | 40                | 0         | 50.0     | 0.0       | 0                 | 1950               | 9               | 17            | 40                 | 38              | 6               |   |
|                | SPAR MTN     | 70          | 70               | 0          | 0            | 0                 | 0         | 0.0      | 0.0       | 0                 | 2020               | 10              | 14            | 50                 | 37              | 6               |   |
|                | TOTALS & AVE | 370         | 330              | 0          | 0            | 40                | 0         | 50.0     | 0.0       | 0                 | 1964               | 9               | 16            | 42                 | 38              | 6               |   |
| STEWARSON E    |              | 20          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | AUX VASES    | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2180               | 6               | 17            | 100                | 38              | 5               |   |
|                | SPAR MTN     | 20          | 0                | 0          | 0            | 20                | 0         | 50.0     | 0.0       | 0                 | 2200               | 6               | 16            | 150                | 37              | 6               |   |
|                | TOTALS & AVE | 30          | 0                | 0          | 0            | 30                | 0         | 66.7     | 0.0       | 0                 | 2193               | 6               | 16            | 133                | 37              | 6               |   |
| STORMS C       |              | 4490        |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | PENNSYLVNIN  | 240         | 10               | 0          | 0            | 230               | 0         | 80.0     | 0.0       | 3                 | 1300               | 15              | 18            | 80                 | 34              | 10              |   |
|                | DEGONIA      | 180         | 0                | 90         | 0            | 90                | 0         | 71.4     | 0.0       | 0                 | 2100               | 7               | 19            | 100                | 35              | 7               |   |
|                | CLORE        | 240         | 70               | 110        | 0            | 60                | 0         | 60.0     | 0.0       | 0                 | 2080               | 10              | 16            | 50                 | 35              | 7               |   |
|                | PALESTINE    | 70          | 0                | 0          | 10           | 60                | 0         | 100.0    | 0.0       | 0                 | 2150               | 15              | 20            | 200                | 35              | 6               |   |
|                | WALTERSBURG  | 2670        | 2390             | 20         | 0            | 230               | 0         | 0.0      | 0.0       | 0                 | 2290               | 20              | 20            | 200                | 33              | 9               |   |
|                | TAR SPRINGS  | 240         | 70               | 0          | 40           | 130               | 0         | 91.7     | 0.0       | 1                 | 2340               | 10              | 19            | 100                | 37              | 6               |   |
|                | HAROLDSBURG  | 20          | 0                | 0          | 0            | 20                | 0         | 100.0    | 0.0       | 0                 | 2475               | 10              | 19            | 200                | 37              | 5               |   |
|                | CYPRESS      | 310         | 0                | 0          | 80           | 230               | 0         | 75.0     | 0.0       | 2                 | 2700               | 10              | 18            | 50                 | 34              | 8               |   |
|                | BETHEL       | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 2800               | 10              | 17            | 50                 | 37              | 6               |   |
|                | RENAULT      | 10          | 0                | 0          | 0            | 10                | 0         | 100.0    | 0.0       | 0                 | 2990               | 5               | 14            | 30                 | 39              | 4               |   |
|                | AUX VASES    | 1030        | 430              | 0          | 170          | 380               | 50        | 77.4     | 100.0     | 0                 | 3000               | 15              | 18            | 50                 | 35              | 7               |   |
|                | STE GEN      | 280         | 0                | 0          | 70           | 210               | 0         | 50.0     | 0.0       | 0                 | 3100               | 17              | 16            | 150                | 35              | 7               |   |
|                | TOTALS & AVE | 5300        | 2970             | 220        | 370          | 1660              | 50        | 64.2     | 100.0     | 6                 | 2425               | 17              | 19            | 152                | 34              | 8               |   |
|                | STRINGTOWN   |             | 530              |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                |              | STE GEN     | 530              | 0          | 250          | 0                 | 270       | 10       | 41.2      | 0.0               | 1                  | 3025            | 8             | 18                 | 300             | 40              | 4 |
| TOTALS & AVE   |              | 530         | 0                | 250        | 0            | 270               | 10        | 41.2     | 0.0       | 1                 | 3025               | 8               | 18            | 300                | 40              | 4               |   |
| STRINGTOWN E   |              | 10          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | MCCLOSKEY    | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 3010               | 4               | 15            | 100                | 37              | 6               |   |
|                | TOTALS & AVE | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 3010               | 4               | 15            | 100                | 37              | 6               |   |
| STUBBLEFIELD S |              | 20          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | CYPRESS      | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 985                | 6               | 18            | 50                 | 35              | 8               |   |
|                | DEVONIAN     | 10          | 0                | 0          | 0            | 10                | 0         | 0.0      | 0.0       | 0                 | 2185               | 8               | 13            | 30                 | 37              | 7               |   |
|                | TOTALS & AVE | 20          | 0                | 0          | 0            | 20                | 0         | 0.0      | 0.0       | 0                 | 1671               | 7               | 15            | 39                 | 36              | 7               |   |
| SUMNER         |              | 20          |                  |            |              |                   |           |          |           |                   |                    |                 |               |                    |                 |                 |   |
|                | MCCLOSKEY    | 20          | 0                | 0          | 0            | 20                | 0         | 0.0      | 0.0       | 0                 | 2260               | 4               | 17            | 200                | 39              | 4               |   |
|                | TOTALS & AVE | 20          | 0                | 0          | 0            | 20                | 0         | 0.0      | 0.0       | 0                 | 2260               | 4               | 17            | 200                | 39              | 4               |   |

| Field name      |           | Areal acres | Waterflood acres |              |      | Remaining primary |       |            |   | No. of SWD* wells | Average properties |                 |               |                    |                 |                 |
|-----------------|-----------|-------------|------------------|--------------|------|-------------------|-------|------------|---|-------------------|--------------------|-----------------|---------------|--------------------|-----------------|-----------------|
|                 |           |             |                  |              |      | Acres             |       | % Active   |   |                   | Depth (ft)         | Thick-ness (ft) | Poros-ity (%) | Perme-ability (md) | Grav-ity (*API) | Vis-cosity (cp) |
| Pay name        | Pay acres | Act-tive    | Aban-doned       | Unde-veloped | Edge | Inter-rior        | Edge  | Inter-rior |   |                   |                    |                 |               |                    |                 |                 |
| SUMNER CEN      | 10        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| SPAR MTN        | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 2544              | 5                  | 16              | 175           | 37                 | 6               |                 |
| TOTALS & AVE    | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 2544              | 5                  | 16              | 175           | 37                 | 6               |                 |
| SUMNER S        | 60        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       | 60        | 0           | 0                | 0            | 60   | 0                 | 100.0 | 0.0        | 0 | 2600              | 8                  | 16              | 50            | 36                 | 8               |                 |
| TOTALS & AVE    | 60        | 0           | 0                | 0            | 60   | 0                 | 100.0 | 0.0        | 0 | 2600              | 8                  | 16              | 50            | 36                 | 8               |                 |
| SUMPTER         | 270       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS     | 190       | 0           | 0                | 0            | 190  | 0                 | 50.0  | 0.0        | 1 | 2580              | 18                 | 18              | 200           | 37                 | 6               |                 |
| HAROLDSBURG     | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 2650              | 12                 | 18              | 200           | 36                 | 6               |                 |
| CYPRESS         | 60        | 0           | 0                | 0            | 60   | 0                 | 50.0  | 0.0        | 0 | 2850              | 15                 | 18              | 50            | 37                 | 6               |                 |
| OHARA           | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0 | 3220              | 6                  | 15              | 40            | 36                 | 6               |                 |
| TOTALS & AVE    | 270       | 0           | 0                | 0            | 270  | 0                 | 50.0  | 0.0        | 1 | 2644              | 17                 | 18              | 168           | 37                 | 6               |                 |
| SUMPTER E       | 1610      |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 220       | 0           | 0                | 10           | 160  | 50                | 93.3  | 100.0      | 0 | 2800              | 16                 | 18              | 50            | 37                 | 6               |                 |
| BETHEL          | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 2920              | 12                 | 17              | 50            | 35                 | 7               |                 |
| AUX VASES       | 420       | 400         | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 3000              | 15                 | 18              | 50            | 39                 | 5               |                 |
| STE GEN         | 1110      | 410         | 0                | 0            | 520  | 180               | 87.1  | 100.0      | 0 | 3130              | 7                  | 14              | 40            | 35                 | 6               |                 |
| TOTALS & AVE    | 1770      | 810         | 0                | 10           | 720  | 230               | 89.2  | 100.0      | 0 | 3016              | 10                 | 16              | 46            | 37                 | 6               |                 |
| SUMPTER N       | 240       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       | 240       | 190         | 0                | 0            | 50   | 0                 | 75.0  | 0.0        | 0 | 3200              | 10                 | 18              | 50            | 37                 | 7               |                 |
| TOTALS & AVE    | 240       | 190         | 0                | 0            | 50   | 0                 | 75.0  | 0.0        | 0 | 3200              | 10                 | 18              | 50            | 37                 | 7               |                 |
| SUMPTER S       | 250       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| TAR SPRINGS     | 120       | 0           | 0                | 120          | 0    | 0                 | 0.0   | 0.0        | 0 | 2600              | 8                  | 18              | 200           | 34                 | 7               |                 |
| BETHEL          | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0 | 3025              | 9                  | 17              | 50            | 35                 | 7               |                 |
| AUX VASES       | 210       | 200         | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0 | 3250              | 10                 | 18              | 50            | 37                 | 6               |                 |
| TOTALS & AVE    | 340       | 200         | 0                | 120          | 20   | 0                 | 100.0 | 0.0        | 0 | 3045              | 9                  | 18              | 96            | 36                 | 6               |                 |
| SUMPTER W       | 10        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 3150              | 5                  | 18              | 50            | 37                 | 7               |                 |
| TOTALS & AVE    | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 3150              | 5                  | 18              | 50            | 37                 | 7               |                 |
| TAMAROA         | 320       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 210       | 110         | 0                | 0            | 100  | 0                 | 50.0  | 0.0        | 0 | 1120              | 13                 | 18              | 100           | 30                 | 18              |                 |
| TRENTON         | 110       | 0           | 0                | 0            | 110  | 0                 | 80.0  | 0.0        | 0 | 4140              | 99                 | 12              | 30            | 38                 | 5               |                 |
| TOTALS & AVE    | 320       | 110         | 0                | 0            | 210  | 0                 | 65.7  | 0.0        | 0 | 3535              | 43                 | 13              | 44            | 36                 | 8               |                 |
| TAMAROA S       | 190       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 190       | 90          | 0                | 0            | 100  | 0                 | 80.0  | 0.0        | 1 | 1150              | 7                  | 17              | 75            | 28                 | 27              |                 |
| TOTALS & AVE    | 190       | 90          | 0                | 0            | 100  | 0                 | 80.0  | 0.0        | 1 | 1150              | 7                  | 17              | 75            | 28                 | 27              |                 |
| TAMAROA W       | 20        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 1100              | 5                  | 16              | 70            | 34                 | 11              |                 |
| TOTALS & AVE    | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 1100              | 5                  | 16              | 70            | 34                 | 11              |                 |
| TAYLOR HILL     | 40        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| OHARA           | 40        | 0           | 0                | 0            | 40   | 0                 | 66.7  | 0.0        | 0 | 3050              | 4                  | 14              | 20            | 37                 | 7               |                 |
| ULLIN           | 30        | 0           | 0                | 0            | 30   | 0                 | 50.0  | 0.0        | 0 | 3940              | 15                 | 10              | 10            | 38                 | 6               |                 |
| TOTALS & AVE    | 70        | 0           | 0                | 0            | 70   | 0                 | 59.5  | 0.0        | 0 | 3707              | 9                  | 11              | 13            | 38                 | 6               |                 |
| TEUTOPOLIS      | 120       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| STE GEN         | 120       | 0           | 0                | 0            | 120  | 0                 | 100.0 | 0.0        | 0 | 2479              | 5                  | 18              | 200           | 38                 | 2               |                 |
| ST LOUIS        | 10        | 0           | 0                | 0            | 10   | 0                 | 100.0 | 0.0        | 0 | 2570              | 4                  | 12              | 30            | 39                 | 4               |                 |
| TOTALS & AVE    | 130       | 0           | 0                | 0            | 130  | 0                 | 100.0 | 0.0        | 0 | 2485              | 5                  | 18              | 189           | 38                 | 2               |                 |
| THACKERAY       | 830       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 3030              | 24                 | 17              | 80            | 36                 | 7               |                 |
| AUX VASES       | 760       | 540         | 0                | 0            | 180  | 40                | 53.8  | 100.0      | 0 | 3370              | 15                 | 20              | 270           | 37                 | 7               |                 |
| STE GEN         | 120       | 0           | 0                | 70           | 50   | 0                 | 100.0 | 0.0        | 0 | 3435              | 11                 | 16              | 100           | 37                 | 7               |                 |
| TOTALS & AVE    | 900       | 540         | 0                | 70           | 250  | 40                | 66.8  | 100.0      | 0 | 3364              | 15                 | 19              | 246           | 37                 | 7               |                 |
| THOMPSONVILLE   | 280       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| STE GEN         | 270       | 0           | 0                | 0            | 200  | 70                | 26.7  | 28.6       | 0 | 3110              | 12                 | 15              | 70            | 38                 | 5               |                 |
| ST LOUIS        | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 3450              | 10                 | 12              | 50            | 39                 | 4               |                 |
| TOTALS & AVE    | 290       | 0           | 0                | 0            | 220  | 70                | 33.3  | 28.6       | 0 | 3130              | 12                 | 15              | 69            | 38                 | 5               |                 |
| THOMPSONVILLE E | 170       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       | 170       | 40          | 20               | 0            | 110  | 0                 | 57.1  | 0.0        | 1 | 3180              | 10                 | 21              | 100           | 38                 | 6               |                 |
| TOTALS & AVE    | 170       | 40          | 20               | 0            | 110  | 0                 | 57.1  | 0.0        | 1 | 3180              | 10                 | 21              | 100           | 38                 | 6               |                 |
| THOMPSONVILLE N | 870       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 20        | 0           | 10               | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 2750              | 10                 | 19              | 100           | 37                 | 6               |                 |
| AUX VASES       | 860       | 0           | 440              | 0            | 390  | 30                | 51.5  | 33.3       | 0 | 3040              | 15                 | 21              | 100           | 35                 | 8               |                 |
| TOTALS & AVE    | 880       | 0           | 450              | 0            | 400  | 30                | 50.2  | 33.3       | 0 | 3036              | 15                 | 21              | 100           | 35                 | 8               |                 |
| TILOEN          | 610       |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| SILURIAN        | 610       | 0           | 0                | 0            | 380  | 230               | 90.9  | 100.0      | 0 | 2160              | 60                 | 17              | 100           | 40                 | 3               |                 |
| TOTALS & AVE    | 610       | 0           | 0                | 0            | 380  | 230               | 90.9  | 100.0      | 0 | 2160              | 60                 | 17              | 100           | 40                 | 3               |                 |
| TOLIVER E       | 70        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| CYPRESS         | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 2510              | 14                 | 17              | 50            | 36                 | 7               |                 |
| AUX VASES       | 20        | 0           | 0                | 0            | 20   | 0                 | 100.0 | 0.0        | 0 | 2740              | 4                  | 16              | 90            | 36                 | 8               |                 |
| STE GEN         | 60        | 0           | 0                | 0            | 60   | 0                 | 75.0  | 0.0        | 1 | 2843              | 8                  | 17              | 267           | 35                 | 9               |                 |
| TOTALS & AVE    | 90        | 0           | 0                | 0            | 90   | 0                 | 72.2  | 0.0        | 1 | 2765              | 8                  | 17              | 203           | 35                 | 8               |                 |
| TOLIVER S       | 70        |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| AUX VASES       | 10        | 0           | 0                | 0            | 10   | 0                 | 0.0   | 0.0        | 0 | 2765              | 10                 | 17              | 30            | 36                 | 7               |                 |
| MCCLOSKEY       | 60        | 0           | 0                | 0            | 60   | 0                 | 0.0   | 0.0        | 0 | 2875              | 5                  | 17              | 300           | 34                 | 9               |                 |
| TOTALS & AVE    | 70        | 0           | 0                | 0            | 70   | 0                 | 0.0   | 0.0        | 0 | 2848              | 6                  | 17              | 233           | 35                 | 9               |                 |
| TONTI           | 1050      |             |                  |              |      |                   |       |            |   |                   |                    |                 |               |                    |                 |                 |
| RENOIST         | 140       | 40          | 0                | 90           | 10   | 0                 | 0.0   | 0.0        | 0 | 1930              | 20                 | 18              | 100           | 36                 | 6               |                 |
| AUX VASES       | 170       | 0           | 0                | 100          | 70   | 0                 | 100.0 | 0.0        | 0 | 2000              | 30                 | 17              | 50            | 37                 | 5               |                 |
| STE GEN         | 1050      | 230         | 30               | 340          | 440  | 10                | 90.6  | 100.0      | 0 | 2125              | 12                 | 16              | 248           | 38                 | 5               |                 |
| DEVONIAN        | 80        | 0           | 0                | 0            | 80   | 0                 | 100.0 | 0.0        | 0 | 3500              | 7                  | 14              | 30            | 37                 | 6               |                 |
| TOTALS & AVE    | 1440      | 270         | 30               | 530          | 600  | 10                | 91.5  | 100.0      | 0 | 2105              | 15                 | 16              | 175           | 37                 | 5               |                 |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name       |              | Areal<br>acres | Waterflood<br>acres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|------------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                  |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name         | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| TOVEY            |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SILURIAN         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 1850               | 10                     | 10                   | 10                        | 38                     | 5                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 1850               | 10                     | 10                   | 10                        | 38                     | 5                      |
| TRUMBULL C       |              | 1490           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TAR SPRINGS      |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 2530               | 5                      | 18                   | 200                       | 35                     | 7                      |
| CYPRESS          |              | 420            | 190                 | 0                | 20   | 210               | 0    | 66.7           | 0.0   | 1                       | 2850               | 10                     | 17                   | 45                        | 36                     | 6                      |
| BETHEL           |              | 50             | 0                   | 0                | 0    | 50                | 0    | 100.0          | 0.0   | 0                       | 3300               | 9                      | 17                   | 50                        | 37                     | 6                      |
| AUX VASES        |              | 520            | 40                  | 0                | 20   | 410               | 50   | 83.8           | 100.0 | 1                       | 3170               | 10                     | 18                   | 63                        | 36                     | 7                      |
| STE GEN          |              | 660            | 120                 | 0                | 0    | 500               | 40   | 75.7           | 66.7  | 0                       | 3230               | 9                      | 16                   | 66                        | 37                     | 6                      |
| TOTALS & AVE     |              | 1680           | 350                 | 0                | 40   | 1200              | 90   | 78.5           | 85.2  | 2                       | 3106               | 9                      | 17                   | 60                        | 36                     | 6                      |
| TRUMBULL N       |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 20             | 0                   | 20               | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 3325               | 7                      | 18                   | 50                        | 36                     | 7                      |
| MCCLOSKEY        |              | 20             | 0                   | 10               | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3460               | 16                     | 17                   | 100                       | 37                     | 6                      |
| TOTALS & AVE     |              | 40             | 0                   | 30               | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3419               | 12                     | 17                   | 85                        | 37                     | 6                      |
| TURKEY BENO      |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TRENTON          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3940               | 42                     | 10                   | 10                        | 39                     | 6                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3940               | 42                     | 10                   | 10                        | 39                     | 6                      |
| VALTER           |              | 110            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 100            | 40                  | 0                | 0    | 60                | 0    | 66.7           | 0.0   | 0                       | 2685               | 8                      | 18                   | 100                       | 39                     | 4                      |
| MCCLOSKEY        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2715               | 12                     | 17                   | 80                        | 39                     | 4                      |
| TOTALS & AVE     |              | 110            | 40                  | 0                | 0    | 70                | 0    | 57.1           | 0.0   | 0                       | 2689               | 8                      | 18                   | 97                        | 39                     | 4                      |
| VIROEN W         |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN         |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 1360               | 20                     | 12                   | 20                        | 38                     | 6                      |
| TOTALS & AVE     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 1360               | 20                     | 12                   | 20                        | 38                     | 6                      |
| WAGGONER         |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 610                | 10                     | 18                   | 100                       | 28                     | 37                     |
| TOTALS & AVE     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 0.0            | 0.0   | 0                       | 610                | 10                     | 18                   | 100                       | 28                     | 37                     |
| WAKEFIELD        |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN         |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 3100               | 5                      | 16                   | 100                       | 38                     | 5                      |
| TOTALS & AVE     |              | 40             | 0                   | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 3100               | 5                      | 16                   | 100                       | 38                     | 5                      |
| WAKEFIELD N      |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3000               | 6                      | 16                   | 200                       | 37                     | 6                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3000               | 6                      | 16                   | 200                       | 37                     | 6                      |
| WAKEFIELD S      |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKEY        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3040               | 4                      | 16                   | 200                       | 37                     | 6                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 3040               | 4                      | 16                   | 200                       | 37                     | 6                      |
| WALPOLE          |              | 2140           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TAR SPRINGS      |              | 110            | 0                   | 0                | 40   | 70                | 0    | 85.7           | 0.0   | 0                       | 2450               | 15                     | 20                   | 100                       | 37                     | 7                      |
| AUX VASES        |              | 2020           | 1630                | 90               | 0    | 260               | 40   | 59.1           | 100.0 | 0                       | 3193               | 18                     | 18                   | 100                       | 37                     | 6                      |
| STE GEN          |              | 100            | 0                   | 0                | 90   | 10                | 0    | 0.0            | 0.0   | 0                       | 3200               | 7                      | 16                   | 50                        | 37                     | 6                      |
| ST LOUIS         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3544               | 8                      | 12                   | 20                        | 38                     | 5                      |
| TOTALS & AVE     |              | 2240           | 1630                | 90               | 130  | 350               | 40   | 63.9           | 100.0 | 0                       | 3162               | 17                     | 18                   | 99                        | 37                     | 6                      |
| WALPOLE S        |              | 40             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 40             | 0                   | 0                | 0    | 40                | 0    | 100.0          | 0.0   | 0                       | 3124               | 8                      | 18                   | 100                       | 37                     | 6                      |
| TOTALS & AVE     |              | 40             | 0                   | 0                | 0    | 40                | 0    | 100.0          | 0.0   | 0                       | 3124               | 8                      | 18                   | 100                       | 37                     | 6                      |
| WALTONVILLE      |              | 60             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST          |              | 50             | 0                   | 0                | 0    | 50                | 0    | 75.0           | 0.0   | 0                       | 2450               | 9                      | 18                   | 100                       | 38                     | 5                      |
| ST LOUIS         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 0.0            | 0.0   | 0                       | 2770               | 14                     | 14                   | 50                        | 37                     | 6                      |
| TOTALS & AVE     |              | 60             | 0                   | 0                | 0    | 60                | 0    | 62.5           | 0.0   | 0                       | 2526               | 10                     | 17                   | 88                        | 38                     | 5                      |
| WAMAC            |              | 310            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 300            | 170                 | 0                | 0    | 130               | 0    | 66.7           | 0.0   | 0                       | 750                | 18                     | 21                   | 200                       | 36                     | 7                      |
| DEVONIAN         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 3000               | 9                      | 14                   | 30                        | 38                     | 6                      |
| TOTALS & AVE     |              | 310            | 170                 | 0                | 0    | 140               | 0    | 69.0           | 0.0   | 0                       | 787                | 18                     | 21                   | 197                       | 36                     | 7                      |
| WAMAC E          |              | 140            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 140            | 0                   | 0                | 0    | 140               | 0    | 60.0           | 0.0   | 1                       | 850                | 15                     | 20                   | 180                       | 30                     | 25                     |
| TOTALS & AVE     |              | 140            | 0                   | 0                | 0    | 140               | 0    | 60.0           | 0.0   | 1                       | 850                | 15                     | 20                   | 180                       | 30                     | 25                     |
| WAMAC W          |              | 290            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 170            | 50                  | 0                | 0    | 120               | 0    | 100.0          | 0.0   | 0                       | 1310               | 8                      | 16                   | 50                        | 35                     | 8                      |
| BENOIST          |              | 110            | 110                 | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 1450               | 12                     | 18                   | 100                       | 36                     | 6                      |
| TOTALS & AVE     |              | 280            | 160                 | 0                | 0    | 120               | 0    | 100.0          | 0.0   | 0                       | 1379               | 10                     | 17                   | 75                        | 35                     | 7                      |
| WAPPELLA E       |              | 350            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEVONIAN         |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 1108               | 5                      | 20                   | 400                       | 31                     | 13                     |
| SILURIAN         |              | 350            | 0                   | 0                | 0    | 190               | 160  | 100.0          | 100.0 | 0                       | 1110               | 6                      | 20                   | 400                       | 31                     | 13                     |
| TOTALS & AVE     |              | 380            | 0                   | 0                | 0    | 220               | 160  | 100.0          | 100.0 | 0                       | 1110               | 6                      | 20                   | 400                       | 31                     | 13                     |
| WARRENTON-BORTON |              | 460            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 460            | 0                   | 60               | 0    | 380               | 20   | 25.0           | 50.0  | 1                       | 250                | 24                     | 19                   | 198                       | 31                     | 20                     |
| TOTALS & AVE     |              | 460            | 0                   | 60               | 0    | 380               | 20   | 25.0           | 50.0  | 1                       | 250                | 24                     | 19                   | 198                       | 31                     | 20                     |
| WATERLOO         |              | 160            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TRENTON          |              | 160            | 0                   | 0                | 0    | 80                | 80   | 0.0            | 0.0   | 0                       | 400                | 50                     | 11                   | 10                        | 30                     | 25                     |
| TOTALS & AVE     |              | 160            | 0                   | 0                | 0    | 80                | 80   | 0.0            | 0.0   | 0                       | 400                | 50                     | 11                   | 10                        | 30                     | 25                     |
| WATSON           |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN          |              | 30             | 0                   | 0                | 0    | 30                | 0    | 33.3           | 0.0   | 0                       | 2420               | 8                      | 17                   | 100                       | 39                     | 5                      |
| TOTALS & AVE     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 33.3           | 0.0   | 0                       | 2420               | 8                      | 17                   | 100                       | 39                     | 5                      |
| WATSON W         |              | 10             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2208               | 12                     | 17                   | 100                       | 39                     | 5                      |
| TOTALS & AVE     |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2208               | 12                     | 17                   | 100                       | 39                     | 5                      |
| WAVERLY          |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| DEV-SIL          |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1020               | 10                     | 13                   | 30                        | 34                     | 12                     |
| TOTALS & AVE     |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 1020               | 10                     | 13                   | 30                        | 34                     | 12                     |



| Field name       |              | Areal<br>acrea | Waterflood<br>acres |                  |      | Remaining primary |      |                |       | No. of<br>SWD*<br>wells | Average properties |                        |                      |                           |                        |                        |
|------------------|--------------|----------------|---------------------|------------------|------|-------------------|------|----------------|-------|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|                  |              |                |                     |                  |      | Acres             |      | % Active       |       |                         | Depth<br>(ft)      | Thick-<br>neaa<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>coalty<br>(cp) |
| Pay name         | Pay<br>acrea | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inter-<br>rior    | Edge | Inter-<br>rior |       |                         |                    |                        |                      |                           |                        |                        |
| WEAVER           |              | 530            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| COLE             |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 1560               | 5                      | 14                   | 30                        | 35                     | 8                      |
| DEVONIAN         |              | 500            | 0                   | 0                | 0    | 370               | 130  | 63.0           | 100.0 | 0                       | 2030               | 10                     | 13                   | 5                         | 37                     | 7                      |
| TOTALS & AVE     |              | 530            | 0                   | 0                | 0    | 400               | 130  | 65.7           | 100.0 | 0                       | 2016               | 10                     | 13                   | 6                         | 37                     | 7                      |
| WEST FRANKFORT C |              | 1590           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TAR SPRINGS      |              | 680            | 160                 | 120              | 0    | 320               | 80   | 82.8           | 100.0 | 2                       | 2057               | 18                     | 17                   | 151                       | 39                     | 5                      |
| AUX VASES        |              | 310            | 170                 | 0                | 20   | 120               | 0    | 91.7           | 0.0   | 0                       | 2690               | 12                     | 18                   | 96                        | 38                     | 5                      |
| STE GEN          |              | 860            | 320                 | 0                | 0    | 350               | 190  | 72.4           | 94.7  | 1                       | 2757               | 11                     | 15                   | 50                        | 38                     | 6                      |
| TOTALS & AVE     |              | 1850           | 650                 | 120              | 20   | 790               | 270  | 79.5           | 96.3  | 3                       | 2410               | 14                     | 16                   | 105                       | 38                     | 5                      |
| WEST SEMINARY    |              | 300            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 210            | 210                 | 0                | 0    | 0                 | 0    | 0.0            | 0.0   | 0                       | 2975               | 10                     | 19                   | 100                       | 37                     | 5                      |
| STE GEN          |              | 280            | 250                 | 0                | 0    | 30                | 0    | 66.7           | 0.0   | 0                       | 3060               | 10                     | 15                   | 200                       | 38                     | 5                      |
| TOTALS & AVE     |              | 490            | 460                 | 0                | 0    | 30                | 0    | 66.7           | 0.0   | 0                       | 3024               | 10                     | 17                   | 157                       | 38                     | 5                      |
| WESTFIELD        |              | 9680           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 1220           | 40                  | 350              | 0    | 740               | 90   | 9.5            | 0.0   | 0                       | 250                | 20                     | 18                   | 150                       | 28                     | 35                     |
| MISSISSIPPIN     |              | 8720           | 100                 | 0                | 0    | 3820              | 4760 | 6.5            | 5.0   | 0                       | 350                | 8                      | 17                   | 100                       | 32                     | 13                     |
| CARPER           |              | 580            | 0                   | 0                | 0    | 320               | 260  | 93.3           | 100.0 | 1                       | 875                | 20                     | 15                   | 5                         | 38                     | 5                      |
| TRENTON          |              | 1710           | 0                   | 0                | 0    | 720               | 990  | 68.8           | 87.0  | 1                       | 2300               | 40                     | 10                   | 5                         | 38                     | 7                      |
| TOTALS & AVE     |              | 12230          | 140                 | 350              | 0    | 5600              | 6100 | 19.9           | 22.3  | 2                       | 1137               | 14                     | 14                   | 63                        | 34                     | 13                     |
| WESTFIELD E      |              | 250            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 250            | 210                 | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 400                | 11                     | 19                   | 150                       | 28                     | 36                     |
| TOTALS & AVE     |              | 250            | 210                 | 0                | 0    | 40                | 0    | 0.0            | 0.0   | 0                       | 400                | 11                     | 19                   | 150                       | 28                     | 36                     |
| WESTFIELD N      |              | 20             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN      |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 370                | 9                      | 19                   | 100                       | 28                     | 36                     |
| TOTALS & AVE     |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 370                | 9                      | 19                   | 100                       | 28                     | 36                     |
| WHITTINGTON      |              | 970            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| HARDINSBURG      |              | 30             | 110                 | 0                | 0    | 210               | 110  | 61.5           | 0.0   | 2                       | 2310               | 10                     | 18                   | 100                       | 38                     | 5                      |
| CYPRESS          |              | 240            | 50                  | 0                | 40   | 160               | 0    | 66.7           | 0.0   | 0                       | 2575               | 10                     | 16                   | 50                        | 35                     | 7                      |
| PT CK GROUP      |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0          | 0.0   | 0                       | 2600               | 4                      | 17                   | 30                        | 38                     | 5                      |
| AUX VASES        |              | 100            | 0                   | 0                | 0    | 100               | 0    | 66.7           | 0.0   | 0                       | 2750               | 10                     | 18                   | 50                        | 38                     | 5                      |
| STE GEN          |              | 360            | 80                  | 0                | 0    | 250               | 30   | 83.3           | 100.0 | 1                       | 2835               | 12                     | 14                   | 30                        | 38                     | 5                      |
| ST LOUIS         |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 3080               | 6                      | 12                   | 20                        | 38                     | 5                      |
| TOTALS & AVE     |              | 1180           | 240                 | 0                | 40   | 770               | 140  | 72.8           | 21.4  | 3                       | 2595               | 10                     | 16                   | 60                        | 37                     | 5                      |
| WHITTINGTON S    |              | 120            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 120            | 0                   | 60               | 60   | 0                 | 0    | 0.0            | 0.0   | 0                       | 2580               | 10                     | 17                   | 50                        | 35                     | 7                      |
| TOTALS & AVE     |              | 120            | 0                   | 60               | 60   | 0                 | 0    | 0.0            | 0.0   | 0                       | 2580               | 10                     | 17                   | 50                        | 35                     | 7                      |
| WHITTINGTON W    |              | 670            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2615               | 10                     | 17                   | 50                        | 36                     | 7                      |
| RENAULT          |              | 480            | 370                 | 0                | 0    | 80                | 30   | 100.0          | 100.0 | 0                       | 2675               | 10                     | 13                   | 13                        | 37                     | 4                      |
| AUX VASES        |              | 180            | 0                   | 0                | 20   | 150               | 10   | 46.2           | 100.0 | 0                       | 2700               | 15                     | 18                   | 97                        | 38                     | 6                      |
| STE GEN          |              | 110            | 0                   | 0                | 30   | 80                | 0    | 12.5           | 0.0   | 1                       | 2800               | 9                      | 17                   | 200                       | 38                     | 5                      |
| TOTALS & AVE     |              | 780            | 370                 | 0                | 50   | 320               | 40   | 52.9           | 100.0 | 1                       | 2697               | 11                     | 15                   | 61                        | 37                     | 5                      |
| WILBERTON        |              | 1030           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BORDEN           |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2630               | 38                     | 16                   | 30                        | 35                     | 8                      |
| CARPER           |              | 1020           | 930                 | 0                | 0    | 90                | 0    | 57.1           | 0.0   | 0                       | 3250               | 39                     | 12                   | 42                        | 37                     | 7                      |
| LINGLE           |              | 30             | 0                   | 0                | 30   | 0                 | 0    | 0.0            | 0.0   | 0                       | 3460               | 10                     | 12                   | 20                        | 28                     | 75                     |
| TOTALS & AVE     |              | 1060           | 930                 | 0                | 30   | 100               | 0    | 61.4           | 0.0   | 0                       | 3246               | 38                     | 12                   | 42                        | 37                     | 8                      |
| WILLIAMS C       |              | 460            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| BENOIST          |              | 200            | 0                   | 0                | 50   | 150               | 0    | 83.3           | 0.0   | 0                       | 2500               | 10                     | 18                   | 100                       | 39                     | 5                      |
| AUX VASES        |              | 400            | 140                 | 0                | 0    | 260               | 0    | 82.6           | 0.0   | 2                       | 2550               | 11                     | 18                   | 50                        | 37                     | 5                      |
| MCCLOSKEY        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2600               | 6                      | 16                   | 50                        | 37                     | 6                      |
| TOTALS & AVE     |              | 610            | 140                 | 0                | 50   | 420               | 0    | 83.3           | 0.0   | 2                       | 2535               | 11                     | 18                   | 65                        | 38                     | 5                      |
| WILLOW HILL E    |              | 320            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 254                | 60                     | 61                   | 6046                      | 37                     | 7                      |
| MCCLOSKEY        |              | 320            | 70                  | 20               | 0    | 220               | 10   | 64.7           | 0.0   | 0                       | 2650               | 6                      | 17                   | 163                       | 39                     | 5                      |
| ST LOUIS         |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2900               | 5                      | 12                   | 20                        | 39                     | 4                      |
| TOTALS & AVE     |              | 340            | 70                  | 20               | 0    | 240               | 10   | 67.6           | 0.0   | 0                       | 2095               | 8                      | 27                   | 1534                      | 39                     | 5                      |
| WOBURN C         |              | 1410           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 310            | 0                   | 0                | 0    | 220               | 90   | 42.9           | 33.3  | 0                       | 850                | 5                      | 18                   | 50                        | 35                     | 8                      |
| BENOIST          |              | 340            | 0                   | 40               | 0    | 210               | 90   | 71.4           | 100.0 | 0                       | 1020               | 14                     | 17                   | 50                        | 36                     | 7                      |
| RENAULT          |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 1047               | 5                      | 17                   | 80                        | 36                     | 7                      |
| AUX VASES        |              | 120            | 0                   | 0                | 40   | 80                | 0    | 87.5           | 0.0   | 0                       | 1055               | 10                     | 17                   | 50                        | 36                     | 8                      |
| LINGLE           |              | 720            | 0                   | 0                | 0    | 640               | 80   | 81.1           | 80.0  | 0                       | 2275               | 8                      | 13                   | 26                        | 35                     | 9                      |
| TRENTON          |              | 320            | 0                   | 0                | 0    | 250               | 70   | 42.9           | 40.0  | 0                       | 3175               | 12                     | 10                   | 5                         | 39                     | 8                      |
| TOTALS & AVE     |              | 1820           | 0                   | 40               | 40   | 1410              | 330  | 67.4           | 64.2  | 0                       | 1911               | 9                      | 14                   | 32                        | 36                     | 8                      |
| WOODLAWN         |              | 1900           |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| TAR SPRINGS      |              | 20             | 0                   | 0                | 0    | 20                | 0    | 100.0          | 0.0   | 0                       | 1700               | 10                     | 17                   | 100                       | 35                     | 8                      |
| CYPRESS          |              | 180            | 0                   | 70               | 0    | 90                | 20   | 100.0          | 100.0 | 0                       | 1800               | 10                     | 18                   | 100                       | 37                     | 6                      |
| BENOIST          |              | 1860           | 190                 | 0                | 0    | 750               | 920  | 49.1           | 66.3  | 7                       | 1920               | 25                     | 16                   | 225                       | 37                     | 6                      |
| AUX VASES        |              | 270            | 0                   | 0                | 110  | 100               | 60   | 70.0           | 100.0 | 0                       | 1975               | 10                     | 17                   | 50                        | 38                     | 5                      |
| STE GEN          |              | 240            | 0                   | 0                | 100  | 110               | 30   | 72.7           | 100.0 | 0                       | 2200               | 9                      | 16                   | 50                        | 38                     | 5                      |
| LINGLE           |              | 70             | 0                   | 0                | 0    | 70                | 0    | 42.9           | 0.0   | 1                       | 3690               | 6                      | 15                   | 100                       | 37                     | 9                      |
| TOTALS & AVE     |              | 2640           | 190                 | 70               | 210  | 1140              | 1030 | 57.7           | 69.9  | 8                       | 1943               | 20                     | 16                   | 204                       | 37                     | 6                      |
| XENIA            |              | 100            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES        |              | 10             | 0                   | 0                | 0    | 10                | 0    | 100.0          | 0.0   | 0                       | 2800               | 13                     | 17                   | 70                        | 35                     | 7                      |
| CARPER           |              | 90             | 0                   | 0                | 0    | 90                | 0    | 83.3           | 0.0   | 0                       | 4230               | 12                     | 14                   | 25                        | 38                     | 5                      |
| TOTALS & AVE     |              | 100            | 0                   | 0                | 0    | 100               | 0    | 85.0           | 0.0   | 0                       | 4076               | 12                     | 14                   | 30                        | 38                     | 5                      |
| XENIA E          |              | 300            |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| CYPRESS          |              | 260            | 0                   | 0                | 0    | 200               | 60   | 43.8           | 20.0  | 0                       | 2500               | 6                      | 18                   | 100                       | 37                     | 6                      |
| BENOIST          |              | 110            | 0                   | 0                | 0    | 90                | 20   | 77.8           | 100.0 | 0                       | 2700               | 6                      | 17                   | 50                        | 35                     | 8                      |
| RENAULT          |              | 20             | 0                   | 0                | 0    | 20                | 0    | 0.0            | 0.0   | 0                       | 2750               | 15                     | 16                   | 80                        | 35                     | 7                      |
| AUX VASES        |              | 30             | 0                   | 0                | 0    | 30                | 0    | 66.7           | 0.0   | 0                       | 2750               | 10                     | 17                   | 70                        | 35                     | 7                      |
| TOTALS & AVE     |              | 420            | 0                   | 0                | 0    | 340               | 80   | 52.2           | 40.0  | 0                       | 2600               | 7                      | 17                   | 83                        | 36                     | 7                      |
| YALE             |              | 30             |                     |                  |      |                   |      |                |       |                         |                    |                        |                      |                           |                        |                        |
| STE GEN          |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 2123               | 9                      | 14                   | 150                       | 37                     | 5                      |
| TOTALS & AVE     |              | 30             | 0                   | 0                | 0    | 30                | 0    | 100.0          | 0.0   | 0                       | 2123               | 9                      | 14                   | 150                       | 37                     | 5                      |

TABLE 2 - SIZE, DEVELOPMENT, AND PROPERTIES OF ILLINOIS OIL FIELDS - Continued

| Field name   |              | Areal<br>acrea | Waterflood<br>acrea |                  |      | Remaining primary |       |               |   | No. of<br>SWD*<br>wells | Average propertiea |                        |                      |                           |                        |                        |
|--------------|--------------|----------------|---------------------|------------------|------|-------------------|-------|---------------|---|-------------------------|--------------------|------------------------|----------------------|---------------------------|------------------------|------------------------|
|              |              |                |                     |                  |      | Acres             |       | % Active      |   |                         | Depth<br>(ft)      | Thick-<br>ness<br>(ft) | Poros-<br>ity<br>(%) | Perme-<br>ability<br>(md) | Grav-<br>ity<br>(°API) | Vis-<br>cosity<br>(cp) |
| Pay name     | Pay<br>acres | Act-<br>tive   | Aban-<br>doned      | Unde-<br>veloped | Edge | Inte-<br>rior     | Edge  | Inte-<br>rior |   |                         |                    |                        |                      |                           |                        |                        |
| YORK         | 410          |                |                     |                  |      |                   |       |               |   |                         |                    |                        |                      |                           |                        |                        |
| PENNSYLVNIN  | 410          | 0              | 130                 | 0                | 150  | 130               | 0.0   | 0.0           | 0 | 598                     | 18                 | 19                     | 94                   | 31                        | 19                     |                        |
| TOTALS & AVE | 410          | 0              | 130                 | 0                | 150  | 130               | 0.0   | 0.0           | 0 | 598                     | 18                 | 19                     | 94                   | 31                        | 19                     |                        |
| ZEIGLER      | 330          |                |                     |                  |      |                   |       |               |   |                         |                    |                        |                      |                           |                        |                        |
| AUX VASES    | 330          | 330            | 0                   | 0                | 0    | 0                 | 0.0   | 0.0           | 0 | 2670                    | 15                 | 21                     | 75                   | 37                        | 6                      |                        |
| TOTALS & AVE | 330          | 330            | 0                   | 0                | 0    | 0                 | 0.0   | 0.0           | 0 | 2670                    | 15                 | 21                     | 75                   | 37                        | 6                      |                        |
| ZENITH       | 20           |                |                     |                  |      |                   |       |               |   |                         |                    |                        |                      |                           |                        |                        |
| MCCLOSKY     | 20           | 0              | 0                   | 0                | 20   | 0                 | 0.0   | 0.0           | 0 | 2970                    | 7                  | 16                     | 75                   | 38                        | 5                      |                        |
| TOTALS & AVE | 20           | 0              | 0                   | 0                | 20   | 0                 | 0.0   | 0.0           | 0 | 2970                    | 7                  | 16                     | 75                   | 38                        | 5                      |                        |
| ZENITH E     | 210          |                |                     |                  |      |                   |       |               |   |                         |                    |                        |                      |                           |                        |                        |
| SPAR MTN     | 210          | 40             | 0                   | 0                | 170  | 0                 | 100.0 | 0.0           | 0 | 2950                    | 10                 | 14                     | 50                   | 37                        | 6                      |                        |
| TOTALS & AVE | 210          | 40             | 0                   | 0                | 170  | 0                 | 100.0 | 0.0           | 0 | 2950                    | 10                 | 14                     | 50                   | 37                        | 6                      |                        |
| ZENITH N     | 280          |                |                     |                  |      |                   |       |               |   |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      | 280          | 150            | 0                   | 0                | 110  | 20                | 66.7  | 100.0         | 1 | 3080                    | 7                  | 14                     | 50                   | 38                        | 4                      |                        |
| TOTALS & AVE | 280          | 150            | 0                   | 0                | 110  | 20                | 66.7  | 100.0         | 1 | 3080                    | 7                  | 14                     | 50                   | 38                        | 4                      |                        |
| ZENITH S     | 260          |                |                     |                  |      |                   |       |               |   |                         |                    |                        |                      |                           |                        |                        |
| STE GEN      | 260          | 0              | 0                   | 0                | 190  | 70                | 11.1  | 0.0           | 0 | 2920                    | 7                  | 15                     | 80                   | 37                        | 6                      |                        |
| TOTALS & AVE | 260          | 0              | 0                   | 0                | 190  | 70                | 11.1  | 0.0           | 0 | 2920                    | 7                  | 15                     | 80                   | 37                        | 6                      |                        |

### Properties

Average depth and thickness, porosity and permeability, and oil gravity and viscosity were also estimated for each pay zone in each oil field. In general, these data were gathered together from core analysis reports and from Survey publications, well logs, and reports.

#### Depth and Thickness

In almost all fields, some data were available to estimate values for depth and thickness. Depth estimates, where published data (e.g. Van Den Berg, Lawry, and Mast, 1969) were not already available, were made from well logs. In general, the depth given represents an average depth at which a pay was found over its entire productive area in each field. In some large fields in the state, this figure may differ significantly from the depth at which a pay zone is encountered in a given location in the field.

The pay thickness was defined as the average oil saturated thickness over the productive area and was not generally equal to the net pay thickness. Where more than one production break was encountered in a pay zone, the pay thickness was estimated as the average oil saturated thickness of the pay zone over the productive area in the field.

These data are in table 2 under the heading of "Average properties." Average depth and thickness for the entire field are also given in the last line for each field. The average depth for the field was computed by weighting and averaging the individual pay zone depths, using the total acre feet of pay in each zone as the weighting factor. The average thickness for each field was determined in the same way as the average depth, except that for thickness, only the total pay acres were used as weighting factors.

#### Porosity and Permeability

The porosity and permeability of the oil pays were more difficult to determine because much of these data had to be taken directly from Survey publications on waterflood operations. In addition, a number of commercial core analysis reports were available in our files. In fields where no data could be found for the porosity and permeability of a pay, these values were estimated, using information from other fields in the same area. These data are in table 2, as are average porosity and permeability figures for the entire field. The field averages were determined by weighting and averaging

the individual pay zone values, using the total acre feet of pay in each zone as the weighting factor.

#### Oil Gravity and Viscosity

Oil gravity and viscosity data were available from Survey reports and publications (Armon, Coburn, Mast, and Sherman, 1964, and Armon, Lawry, and Mast, 1966) for most of the pay zones in the state. In general, the gravity and viscosity given in this report represent stock tank values. The viscosity is given at a temperature of 77° F.

Because a large amount of oil gravity and viscosity data were available, regression curves were constructed which related API gravity to depth. Also, regression curves were fitted to cross plots of API gravity and viscosity. The regression lines were then used to determine the values for these properties in pays where no other data were available. The gravity and viscosity data are in table 2. The field averages were determined by weighting and averaging the individual pay zone values, using the acre feet of pay in each zone as the weighting factor.

### ANALYSIS OF DATA

#### Properties of Illinois Oil Fields

The frequency distributions for each property shown in figures 2, 3, and 4 were constructed using the data in table 2. Based on the total oil found (Bond, et al., in preparation), these data represent approximately 82 percent of all the oil reservoirs in the Illinois Basin. Therefore, the distributions shown should closely approximate the distributions for the entire basin.

The distribution for each property has been broken into four subdistributions representing the data from each of the four major lithologic types which produced oil in Illinois. Fine sandstone reservoirs are predominantly found in the Chesterian (Mississippian) and Pennsylvanian rocks. The very fine sandstones are mostly in the Aux Vases Sandstone Formation (Mississippian), but also include some Valmeyeran (Mississippian) siltstones. The very fine sandstone reservoirs, in general, required fracture stimulation to make oil production economically feasible. Oolitic limestones which produce oil in Illinois are mainly found in the Ste. Genevieve Limestone Formation (Mississippian). The other oil producing carbonate rocks include a wide variety of Mississippian, Devonian, Silurian, and Ordovician limestones and dolomites.

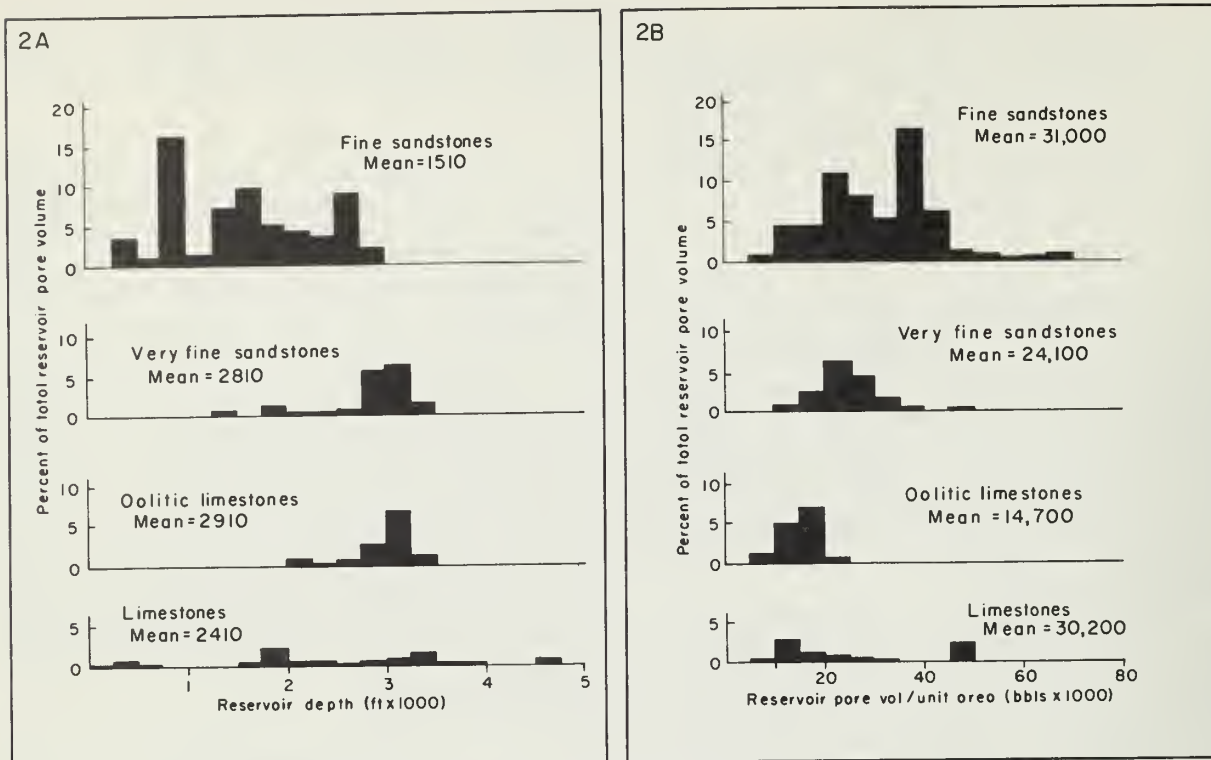


Fig. 2 - Depth and pore volume per unit area of Illinois oil fields.

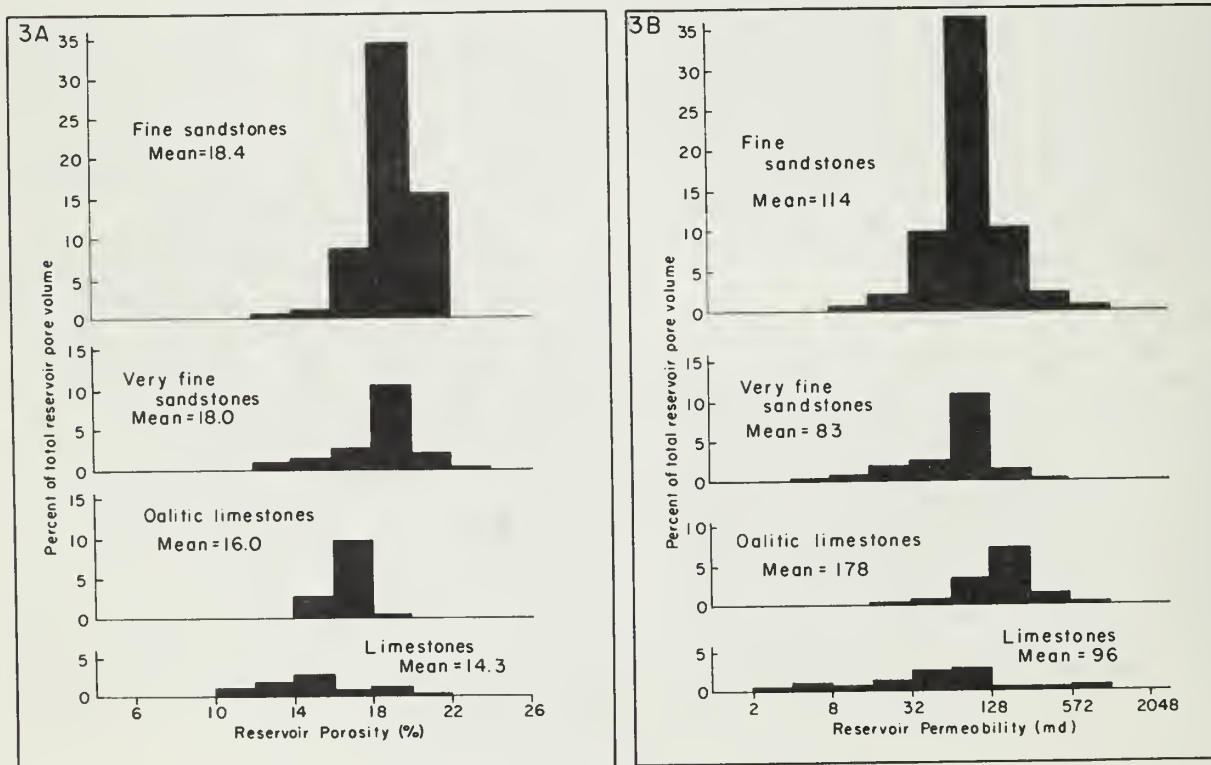


Fig. 3 - Porosity and permeability of Illinois oil reserves.



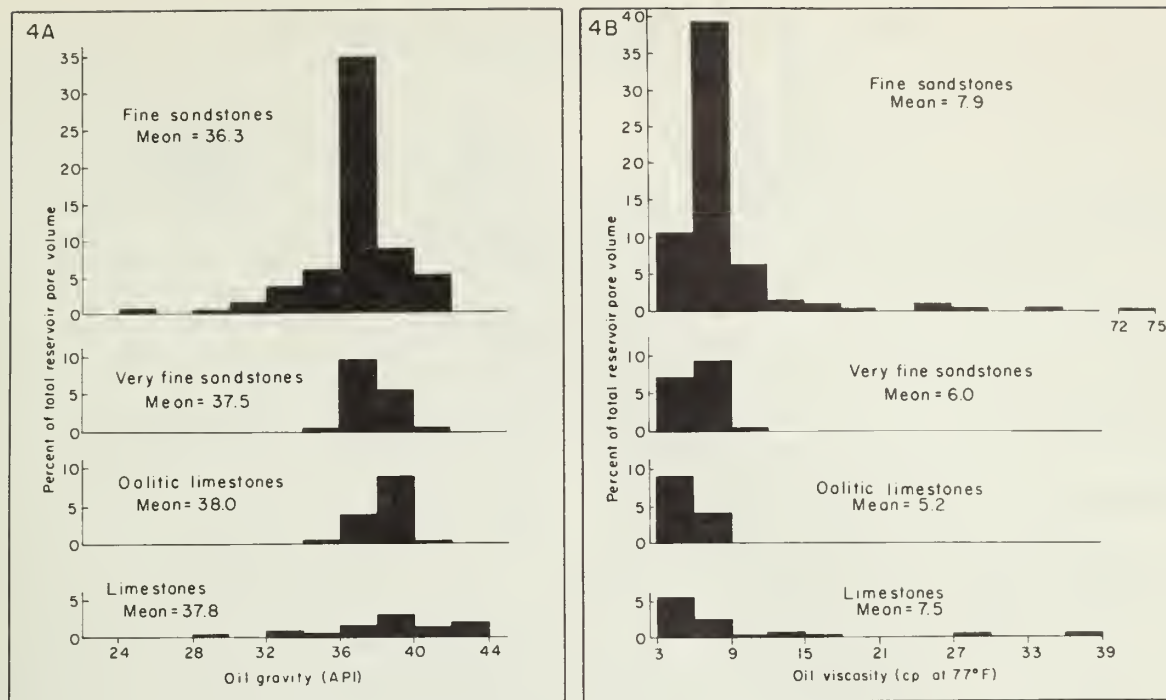


Fig. 4 - Gravity and viscosity of Illinois crude oils.

### Depth and Pore Volume

The average depth at which oil is found in Illinois is 2000 feet. The depth distributions in figure 2A show several distinct peaks or modes that reflect the different stratigraphic intervals where large quantities of oil have been found (see table 3). In general, there is an abrupt cutoff in the depth distributions (fig. 2A) between 3000 and 3500 feet. This is probably due to the fact that a very small percentage of the total wells drilled in Illinois have been drilled to depths which exceed 3500 feet.

Pore volume per unit area distributions are given in figure 2B. Pore volume per unit area is the product of gross saturated thickness and porosity.

The two distinct maximums (modal classes) in the fine sandstone distribution reflect the fact that many of the oil pays represented are in geologic units which exhibit thick channel or deltaic sands associated with thin sands from a variety of origins (Swann, 1964).

Available closure must also be considered in interpreting the graphs in figure 2B. For thin sands, gross saturated thickness is primar-

ily limited by total sand thickness. For thick sands, gross saturated thickness depends more on the amount of closure available. The correspondence between the modal class for the very fine sandstones and the left-hand modal class for the fine sandstones supports the idea that in the case of thin sandstones, saturated thickness is primarily a function of sand thickness.

Using the average porosities given in figure 3A, the average saturated thickness for the different lithologies was computed. Fine sandstones have an average saturated thickness of 22 feet, very fine sandstones average 17 feet, and oolitic limestone reservoirs average only 12 feet.

### Porosity and Permeability

The porosity distributions for Illinois reservoirs are shown in figure 3A. The porosity distribution for each lithologic unit is essentially a normal distribution. The sandstone and very fine sandstone distributions are very similar, reflecting the similarities of these two lithologies. Oolitic limestone reservoirs are limited to a somewhat narrow range of porosity and are considerably less porous than are the sandstone reser-

TABLE 3 - SIZE AND DEVELOPMENT STATISTICS FOR ILLINOIS  
OIL RESERVOIRS AS OF JANUARY 1, 1968

| Stratigraphic interval | State's total reservoir pore volume (%) | Pay acres | Pay acres under flood (%) | Flood acres active (%) | Remaining primary active (%) | Active acreage not under flood* |
|------------------------|-----------------------------------------|-----------|---------------------------|------------------------|------------------------------|---------------------------------|
| Pennsylvanian          | 22.9                                    | 107,400   | 46.3                      | 81.2                   | 46.1                         | 26,500                          |
| Mississippian          |                                         |           |                           |                        |                              |                                 |
| Chesterian             |                                         |           |                           |                        |                              |                                 |
| Kinkaid-Barlow         | 5.5                                     | 38,900    | 59.7                      | 81.7                   | 70.1                         | 11,000                          |
| Cypress                | 17.5                                    | 112,000   | 65.4                      | 91.6                   | 72.0                         | 27,900                          |
| Paint Creek-Renault    | 12.8                                    | 91,400    | 60.8                      | 92.7                   | 70.4                         | 25,200                          |
| Valmeyeran             |                                         |           |                           |                        |                              |                                 |
| Aux Vases              | 16.6                                    | 121,000   | 57.1                      | 85.1                   | 66.0                         | 34,200                          |
| Ste. Genevieve         | 15.3                                    | 189,800   | 37.4                      | 83.8                   | 52.7                         | 62,600                          |
| St. Louis-Carper       | 2.3                                     | 21,900    | 7.7                       | 95.3                   | 44.0                         | 8,900                           |
| Devonian               | 3.4                                     | 23,900    | 43.9                      | 74.0                   | 75.6                         | 10,200                          |
| Silurian               | 2.1                                     | 19,100    | 3.2                       | 91.9                   | 65.5                         | 12,100                          |
| Ordovician             | 1.6                                     | 9,000     | 28.8                      | 0.0                    | 61.7                         | 4,000                           |
| State                  | 100.0                                   | 734,400   | 48.9                      | 84.4                   | 59.2                         | 222,600                         |

\*Includes undeveloped waterflood acreage.

voirs. On the average, the limestones have the lowest porosity (14.3 percent) of all the lithologic units investigated.

The permeability distributions in figure 3B have been constructed using equal intervals based on the  $\log_2$  of permeability, which has effectively normalized these distributions so that they closely resemble the porosity distributions. The computed permeability means given on the figure are the geometric means. A comparison of the porosities and permeabilities of the different lithologies in figure 4 shows that the very fine sandstones are on the average 27 percent less permeable, but only 2 percent less porous than the fine sandstones. These variations can be interpreted in terms of differences in primary textural parameters, such as grain size and sorting. Oolitic limestones, on the other hand, are on the average 56 percent more permeable and 13 percent less porous than the fine sandstones.

These average differences in porosity and permeability between all the sandstones (fine and very fine) and the oolitic limestones cannot be easily explained. Graf and Lamar (1950) outline a complex history for the development of porosity in oolitic rocks in a petrographic study of the Fredonia Limestone Member of the Ste. Genevieve Formation. They conclude that porosity in these rocks has been influenced by several post-depositional events including the deposition cements and solution of both cements and matrix materials. The low porosity and the high permeability of the oolitic limestones reflect the strong influence of secondary porosity on the permeability of these rocks.

#### Oil Gravity and Viscosity

The gravity of the crude oil in Illinois averages 36.8° API. In general, the gravity distribution in figure 4A reflects the depth range through which crude oil is found in each lithologic group; low gravity crudes are more prevalent in lithologies that are oil productive at shallow depths. The crude gravity distribution for the entire state (all lithologies) is skewed to the left and strongly peaked. A greater proportion of the crude oils found in Indiana and Kentucky parts of the Illinois Basin have lower gravities than those found in Illinois. It is probable that the addition of the Indiana and Kentucky data would increase the skewness of these distributions, but it is unlikely that a secondary mode would develop.

The viscosity distributions shown in figure 4B essentially mirror the gravity distributions.

The mean viscosity for all the crude in the state is 7.1 centipoise at 77° F.

#### Size and Development of Illinois Oil Fields

The number of surface acres in Illinois underlain by oil totals 573,390 acres. In comparison, the sum of the pay acreage in the state is 734,400 acres. On the average, then, each oil producing well produces from 1.3 pays.

Table 3 summarizes the data in table 2 for selected stratigraphic intervals and for all the oil fields in the state. Based on acreage, an estimated 48.9 percent of the oil-producing zones are included in active and abandoned waterfloods. Of the total of 350,000 pay acres which have been subject to injection, 15.6 percent have been abandoned. An estimated 59.2 percent, or a total of 222,600 acres, of the state's remaining primary acreage was still active as of January 1, 1968. The 222,600 acres include the pay acreage in existing flood areas which have not been developed for waterflood.

Table 3 also gives the total pay acres discovered in various stratigraphic intervals. Oil production in the state is most widespread in the Ste. Genevieve Limestone, the Aux Vases Sandstone, and the Cypress Sandstone Formations. Based on the percentage of the pay acres under flood, Chesterian sandstones have been the most widely developed for waterflood. In comparison, the occurrence of low-gravity, high-viscosity oils in the shallow Pennsylvanian oil sands has somewhat limited the development of these sands for waterflood.

Of the total reservoir pore volume, 22.9 percent of the oil-producing reservoirs in the state is in Pennsylvanian rocks (table 3), and 70.0 percent is in Mississippian rocks. Only 7.1 percent is found in Devonian, Silurian, and Ordovician rocks.

#### Future Development

It has been estimated by Mast (1969) that an average of 5000 acres per year will be developed for waterflood during 1970-1979. This would amount to approximately 25 percent of the remaining primary acreage and undeveloped flood acreage still active as of January 1, 1968. Future production from the Illinois oil fields will depend to a large extent on technological development of more efficient recovery processes.

Of total reservoir pore volume, 60 percent of Illinois oil reservoirs are in fine sandstone rocks which have an average porosity of 18.4 percent and an average permeability of 114 md. Average stock tank oil gravity is 36.8° API and the average viscosity of these crudes is 7.9 centipoise at 77° F. Very fine sands and siltstones make up approximately 17 percent of the Illinois oil reservoirs. These reservoirs are very similar to the sandstone reservoirs except that they have a lower average permeability of 83 millidarcys. Oolitic limestone reservoirs make up approximately 13 percent of the state total. These reservoirs are somewhat thinner and less porous (16 percent) but considerably more permeable (178 millidarcys) than the sandstone reservoirs.

These data make it possible to evaluate the susceptibility of the Illinois oil reservoirs to

the various types of oil recovery processes. Thermal processes have been most successful in reservoirs which contain low-gravity, high-viscosity crudes, but only a small percentage of the Illinois reservoirs fit this requirement.

Chemical processes in which fluid mobility is controlled should have the widest application for Illinois' future. This type of process is expensive to apply, however, because of high cost and large amounts of chemicals used. Based on permeability, porosity, thickness, and oil viscosity considerations, fine sandstone reservoirs in Illinois seem to be the most likely candidates for the application of these new recovery processes.

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